FIG. 1

```
   1 atggcagagc atgattacca tgaagactat gggttcagca gtttcaatga cagcagccag
  61 gaggagcatc aagacttcct gcagttcagc aaggtctttc tgccctgcat gtacctggtg
 121 gtgtttgtct gtggtctggt ggggaactct ctggtgctgg tcatatccat cttctaccat
 181 aagttgcaga gcctgacgga tgtgttcctg gtgaacctac ccctggctga cctggtgttt
 241 gtctgcactc tgcccttctg ggcctatgca ggcatccatg aatgggtgtt tggccaggtc
 301 atgtgcaaga gcctactggg catctacact attaacttct acacgtccat gctcatcctc
 361 acctgcatca ctgtggatcg tttcattgta gtggttaagg ccaccaaggc ctacaaccag
 421 caagccaaga ggatgacctg gggcaaggtc accagcttgc tcatctgggt gatatccctg
 481 ctggtttcct tgccccaaat tatctatggc aatgtcttta atctcgacaa gctcatatgt
 541 ggttaccatg acgaggcaat ttccactgtg gttcttgcca cccagatgac actggggttc
 601 ttcttgccac tgctcaccat gattgtctgc tattcagtca taatcaaaac actgcttcat
 661 gctggaggct tccagaagca cagatctcta aagatcatct tcctggtgat ggctgtgttc
 721 ctgctgaccc agatgccctt caacctcatg aagttcatcc gcagcacaca ctgggaatac
 781 tatgccatga ccagctttca ctacaccatc atggtgacag aggccatcgc atacctgagg
 841 gcctgcctta accctgtgct ctatgccttt gtcagcctga agtttcgaaa gaacttctgg
 901 aaacttgtga aggacattgg ttgcctccct taccttgggg tctcacatca atggaaatct
 961 tctgaggaca attccaagac tttttctgcc tcccacaatg tggaggccac cagcatgttc
1021 cagttatag
```

FIG. 2

MAEHDYHEDY GFSSFNDSSQ EEHQDFLQFS KVFLPCMYLV VFVCGLVGNS LVLVISIFYH KLQSLTDVFL
VNLPLADLVF VCTLPFWAYA GIHEWVFGQV MCKSLLGIYT INFYTSMLIL TCITVDRFIV VVKATKAYNQ
QAKRMTWGKV TSLLIWVISL LVSLPQIIYG NVFNLDKLIC GYHDEAISTV VLATQMTLGF FLPLLTMIVC
YSVIIKTLLH AGGFQKHRSL KIIFLVMAVF LLTQMPFNLM KFIRSTHWEY YAMTSFHYTI MVTEAIAYLR
ACLNPVLYAF VSLKFRKNFW KLVKDIGCLP YLGVSHQWKS SEDNSKTFSA SHNVEATSMF QL

FIG. 3

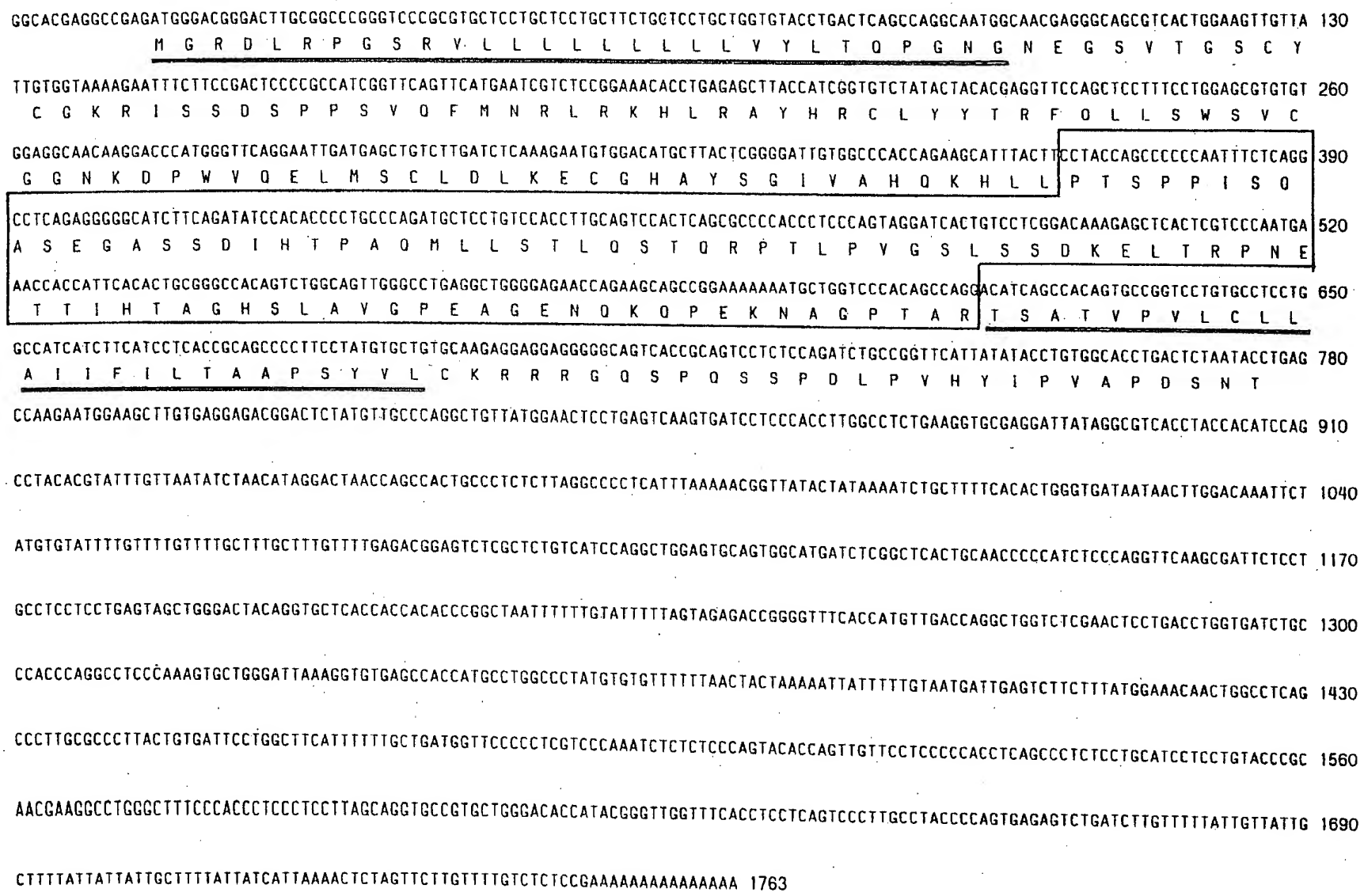


FIG. 4A

```
1.
CGGCGACTCTCTCCACCGGGCCGCCCGGGAGGCTCATGCAGCGCGGCTGGGTCCCGCGGC
61
GCCCGGATCGGGGAAGTGAAAGTGCCTCGGAGGAGGAGGGCCGGTCCGGCAGTGCAGCCG
121
CCTCACAGGTCGGCGGACGGGCCAGGCGGGCGGCCTCCTGAACCGAACCGAATCGGCTCC
181
TCGGGCCGTCGTCCTCCCGCCCCTCCTCGCCCGCCGCCGGAGTTTTCTTTCGGTTTCTTC
241
CAAGATTCCTGGCCTTCCCTCGACGGAGCCGGGCCCAGTGCGGGGGCGCAGGGCGCGGGA
301
GCTCCACCTCCTCGGCTTTCCCTGCGTCCAGAGGCTGGCATGGCGCGGGCCGAGTACTGA
361
GCGCACGGTCGGGGCACAGCAGGGCCGGTGGGTGCAGCTGGCTCGCGCCTCCTCTCCGGC
421
CGCCGTCTCCTCCGGTCCCCGGCGAAAGCCATTGAGACACCAGCTGGACGTCACGCGCCG
481
GAGCATGTCTGGGAGTCAGAGCGAGGTGGCTCCATCCCCGCAGAGTCCGCGGAGCCCCGA
541
GATGGGACGGGACTTGCGGCCCGGGTCCCGCGTGCTCCTGCTCCTGCTTCTGCTCCTGCT
 M  G  R  D  L  R  P  G  S  R  V  L  L  L  L  L  L  L  L  L     20
601
GGTGTACCTGACTCAGCCAGGCAATGGCAACGAGGGCAGCGTCACTGGAAGTTGTTATTG
 V  Y  L  T  Q  P  G  N  G  N  E  G  S  V  T  G  S  C  Y  C     40
661
TGGTAAAAGAATTTCTTCCGACTCCCCGCCATCGGTTCAGTTCATGAATCGTCTCCGGAA
 G  K  R  I  S  S  D  S  P  P  S  V  Q  F  M  N  R  L  R  K     60
721
ACACCTGAGAGCTTACCATCGGTGTCTATACTACACGAGGTTCCAGCTCCTTTCCTGGAG
 H  L  R  A  Y  H  R  C  L  Y  Y  T  R  F  Q  L  L  S  W  S     80
781
CGTGTGTGGAGGCAACAAGGACCCATGGGTTCAGGAATTGATGAGCTGTCTTGATCTCAA
 V  C  G  G  N  K  D  P  W  V  Q  E  L  M  S  C  L  D  L  K    100
```

FIG. 4B

```
841
   .    .    .    .    .    .
AGAATGTGGACATGCTTACTCGGGGATTGTGGCCCACCAGAAGCATTTACTTCCTACCAG
 E  C  G  H  A  Y  S  G  I  V  A  H  Q  K  H  L  L  P  T  S   120

901
   .    .    .    .    .    .
CCCCCCAACTTCTCAGGCCTCAGAGGGGGCATCTTCAGATATCCACACCCCTGCCCAGAT
 P  P  T  S  Q  A  S  E  G  A  S  S  D  I  H  T  P  A  Q  M   140

961
   .    .    .    .    .    .
GCTCCTGTCCACCTTGCAGTCCACTCAGCGCCCCACCCTCCCAGTAGGATCACTGTCCTC
 L  L  S  T  L  Q  S  T  Q  R  P  T  L  P  V  G  S  L  S  S   160

1021
   .    .    .    .    .    .
GGACAAAGAGCTCACTCGTCCCAATGAAACCACCATTCACACTGCGGGCCACAGTCTGGC
 D  K  E  L  T  R  P  N  E  T  T  I  H  T  A  G  H  S  L  A   180

1081
   .    .    .    .    .    .
AGTTGGGCCTGAGGCTGGGGAGAACCAGAAGCAGCCGGAAAAAAATGCTGGTCCCACAGC
 V  G  P  E  A  G  E  N  Q  K  Q  P  E  K  N  A  G  P  T  A   200

1141
   .    .    .    .    .    .
CAGGACATCAGCCACAGTGCCGGTCCTGTGCCTCCTGGCCATCATCTTCATCCTCACCGC
 R  T  S  A  T  V  P  V  L  C  L  L  A  I  I  F  I  L  T  A   220

1201
   .    .    .    .    .    .
AGCCCTTTCCTATGTGCTGTGCAAGAGGAGGAGGGGGCAGTCACCGCAGTCCTCTCCAGA
 A  L  S  Y  V  L  C  K  R  R  R  G  Q  S  P  Q  S  S  P  D   240

1261
   .    .    .    .    .    .
TCTGCCGGTTCATTATATACCTGTGGCACCTGACTCTAATACCTGAGCCAAGAATGGAAG
 L  P  V  H  Y  I  P  V  A  P  D  S  N  T  *                  254

1321
   .    .    .    .    .    .
CTTGTGAGGAGACGGACTCTATGTTGCCCAGGCTGTTATGGAACTCCTGAGTCAAGTGAT
1381
   .    .    .    .    .    .
CCTCCCACCTTGGCCTCTGAAGGTGCGAGGATTATAGGCGTCACCTACCACATCCAGCCT
1441
   .    .    .    .    .    .
ACACGTATTTGTTAATATCTAACATAGGACTAACCAGCCACTGCCCTCTCTTAGGCCCCT
```

FIG. 4C

1501
CATTTAAAAACGGTTATACTATAAAATCTGCTTTTCACACTGGGTGATAATAACTTGGAC
1561
AAATTCTATGTGTATTTTGTTTTGTTTTGCTTTGCTTTGTTTTGAGACGGAGTCTCGCTC
1621
TGTCATCCAGGCTGGAGTGCAGTGGCATGATCTCGGCTCACTGCAACCCCCATCTCCCAG
1681
GTTCAAGCGATTCTCCTGCCTCCTCCTAAGTAGCTGGGACTACAGGTGCTCACCACCACA
1741
CCCGGCTAATTTTTTGTATTTTTAGTAGAGACGGGGTTTCACCATGTTGACCAGGCTGGT
1801
CTCGAACTCCTGACCTGGTGATCTGCCCACCCAGGCCTCCCAAAGTGCTGGGATTAAAGG
1861
TGTGAGCCACCATGCCTGGCCCTATGTGTGTTTTTAACTACTAAAAATTATTTTTGTAA
1921
TGATTGAGTCTTCTTTATGGAAACAACTGGCCTCAGCCCTTGCGCCCTTACTGTGATTCC
1981
TGGCTTCATTTTTTGCTGATGGTTCCCCCTCGTCCCAAATCTCTCTCCCAGTACACCAGT
2041
TGTTCCTCCCCCACCTCAGCCCTCTCCTGCATCCTCCTGTACCCGCAACGAAGGCCTGGG
2101
CTTTCCCACCCTCCCTCCTTAGCAGGTGCCGTGCTGGGACACCATACGGGTTGGTTTCAC
2161
CTCCTCAGTCCCTTGCCTACCCCAGTGAGAGTCTGATCTTGTTTTATTGTTATTGCTTT
2221
TATTATTATTGCTTTTATTATCATTAAAACTCTAGTTCTTGTTTTGTCTCTCAAAAAAAA
2281
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

FIG. 5

```
  1 ccgcagcatg agctccgcag ccgggttctg cgcctcacgc cccgggctgc tgttcctggg
 61 gttgctgctc ctgccacttg tggtcgcctt cgccagcgct gaagctgaag aagatgggga
121 cctgcagtgc ctgtgtgtga agaccacctc ccaggtccgt cccaggcaca tcaccagcct
181 ggaggtgatc aaggccggac cccactgccc cactgcccaa ctgatagcca cgctgaagaa
241 tggaaggaaa atttgcttgg acctgcaagc cccgctgtac aagaaaataa ttaagaaact
301 tttggagagt tagctactag ctgcctacgt gtgtgcattt gctatatagc atacttcttt
361 tttccagttt caatctaact gtgaaagaaa cttctgatat ttgtgttatc cttatgattt
421 taaataaaca aaataaatc
```

FIG. 6

MSSAAGFCAS RPGLLFLGLL LLPLVVAFAS AEAEEDGDLQ CLCVKTTSQV RPRHITSLEV IKAGPHCPTA
QLIATLKNGR KICLDLQAPL YKKIIKKLLE S

FIG. 7

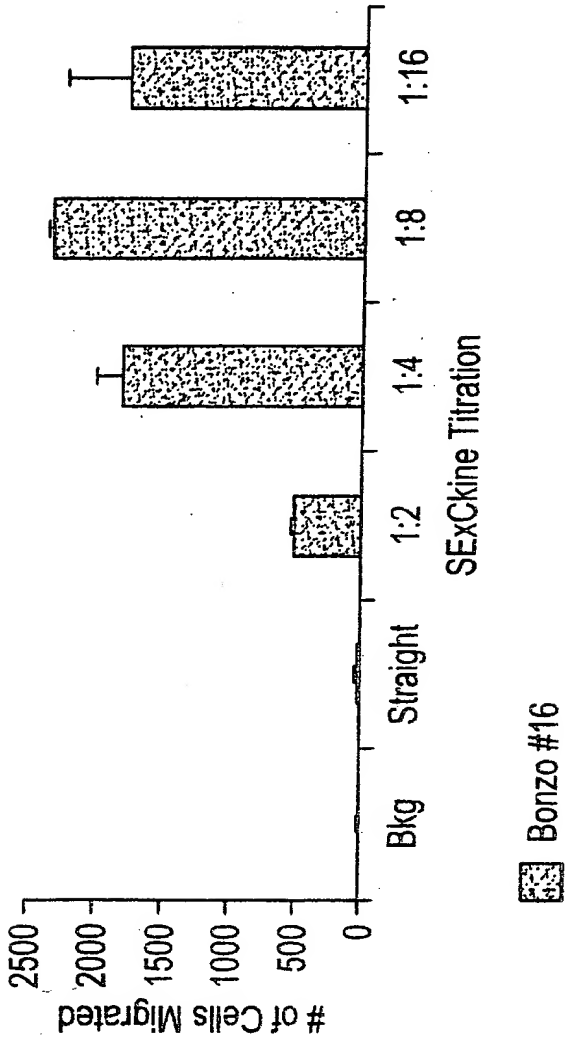


FIG. 8A

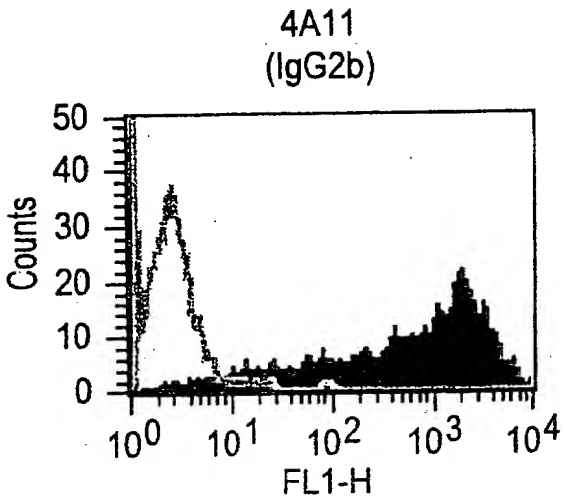


FIG. 8B

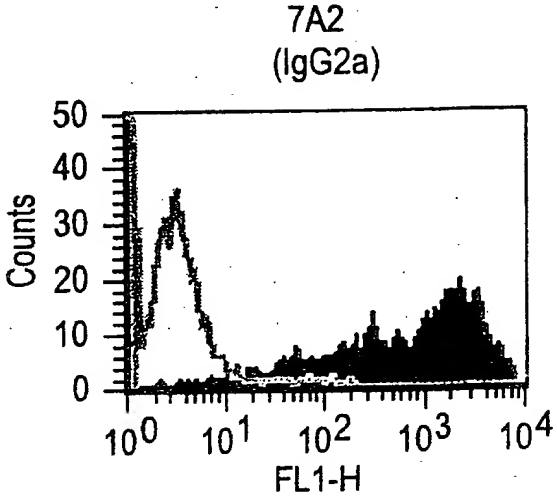


FIG. 8C

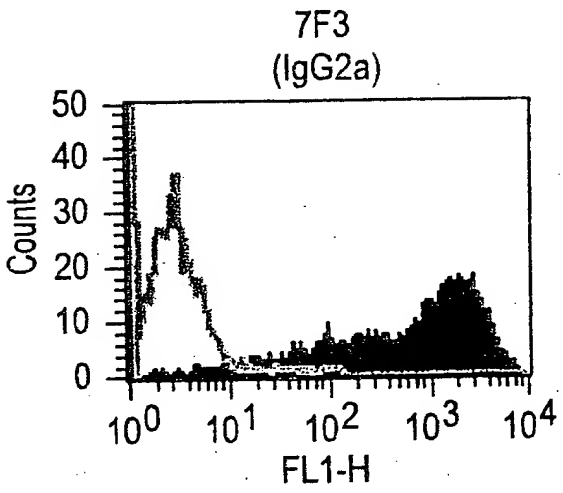


FIG. 8D

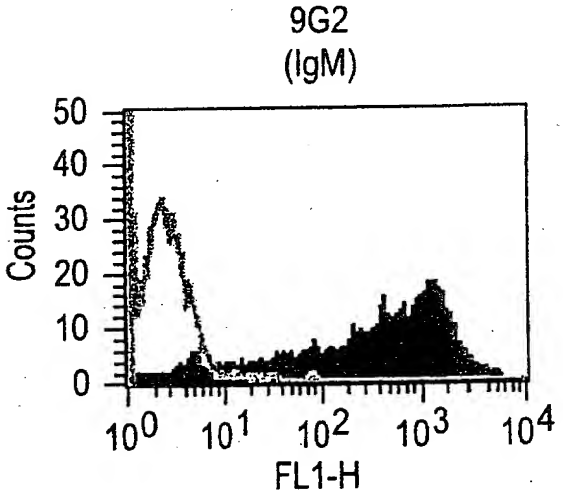


FIG. 9A

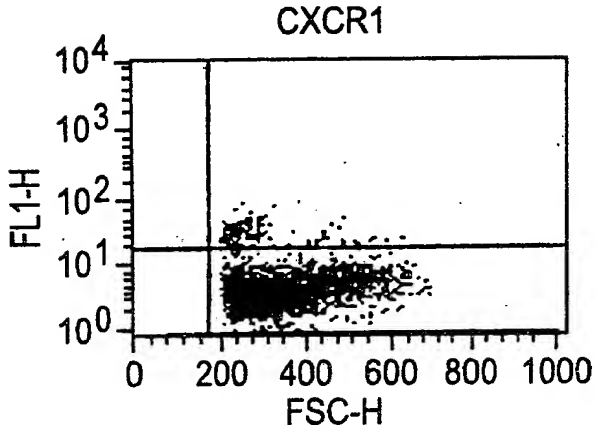


FIG. 9C

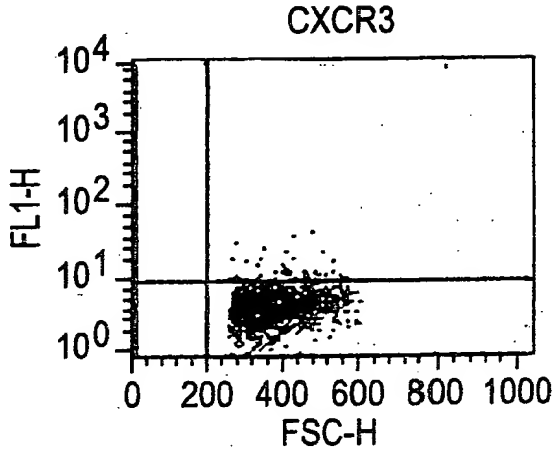


FIG. 9B

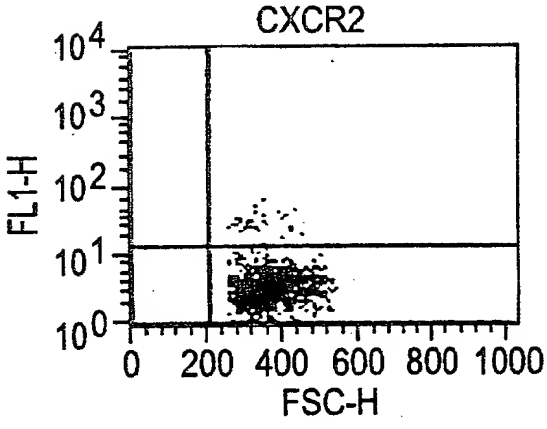


FIG. 9D

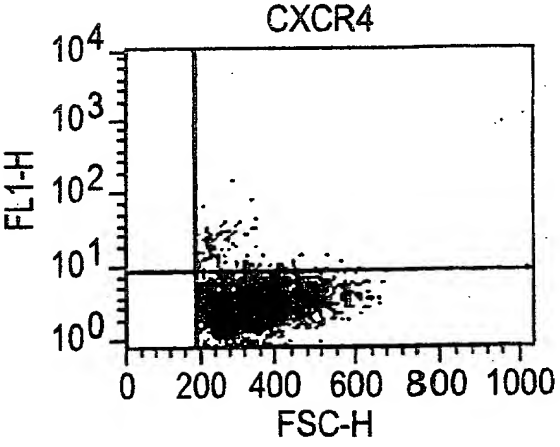


FIG. 9E

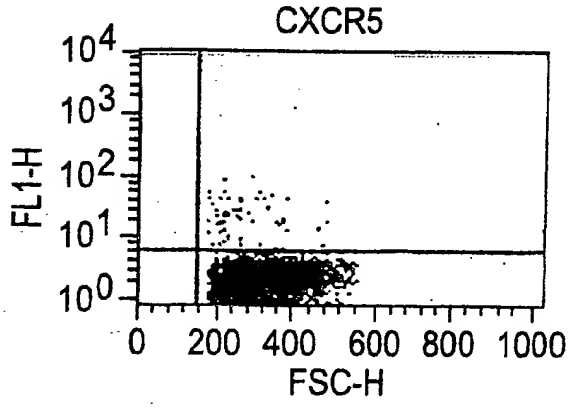


FIG. 9F

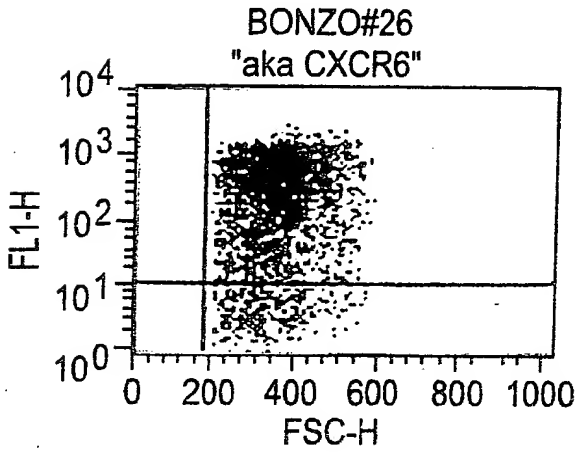
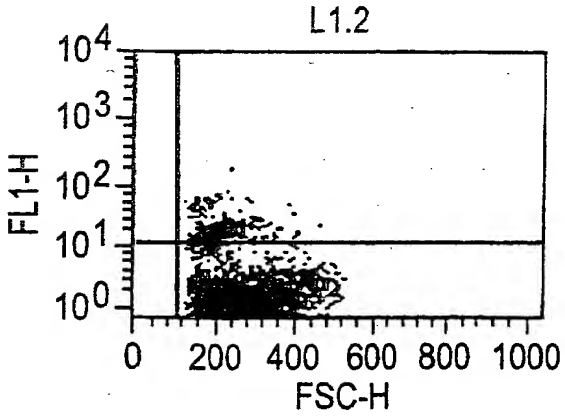


FIG. 9G



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Inventors: Michael J. Briskin *et al.*

FIG. 10

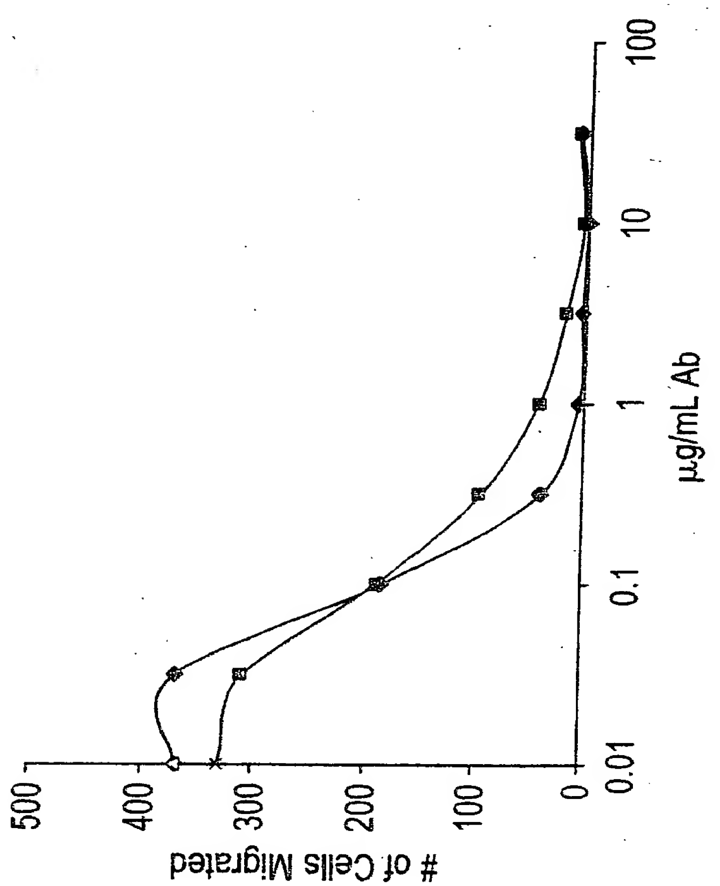


FIG. 11A

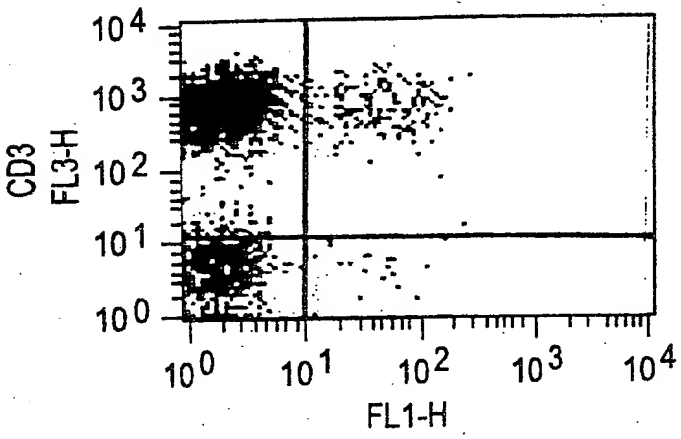


FIG. 11B

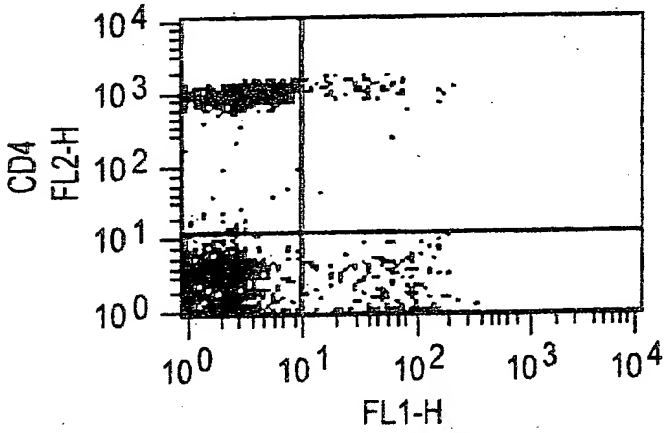


FIG. 11C

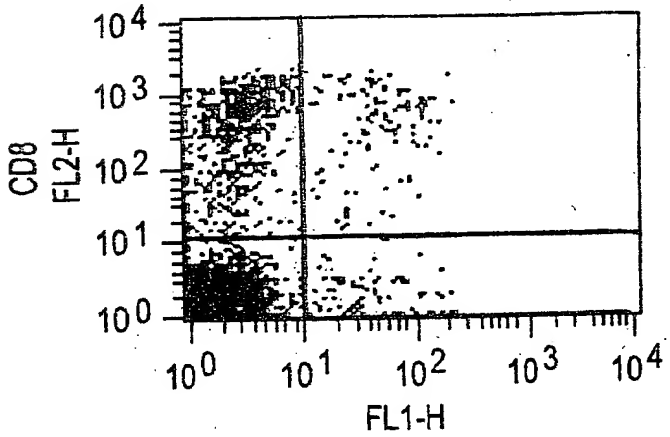


FIG. 11D

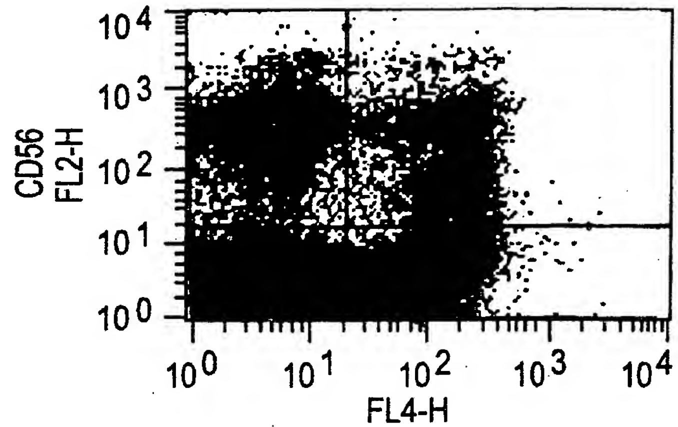


FIG. 11E

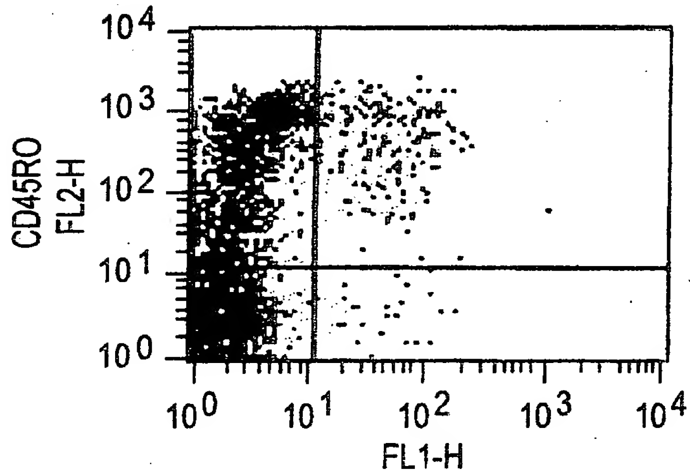


FIG. 11F

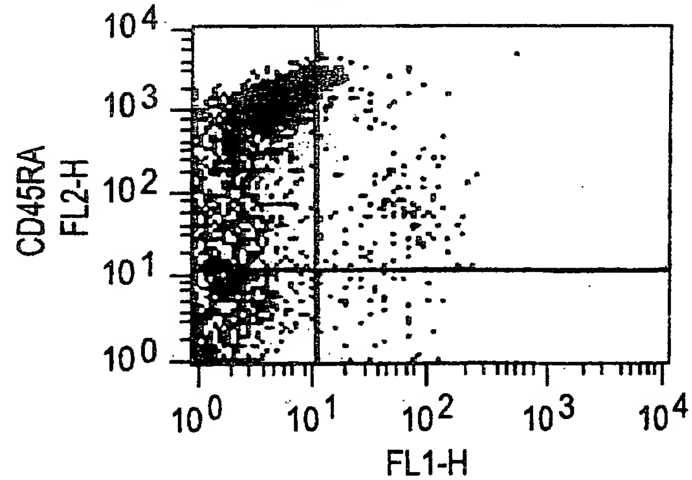


FIG. 11G

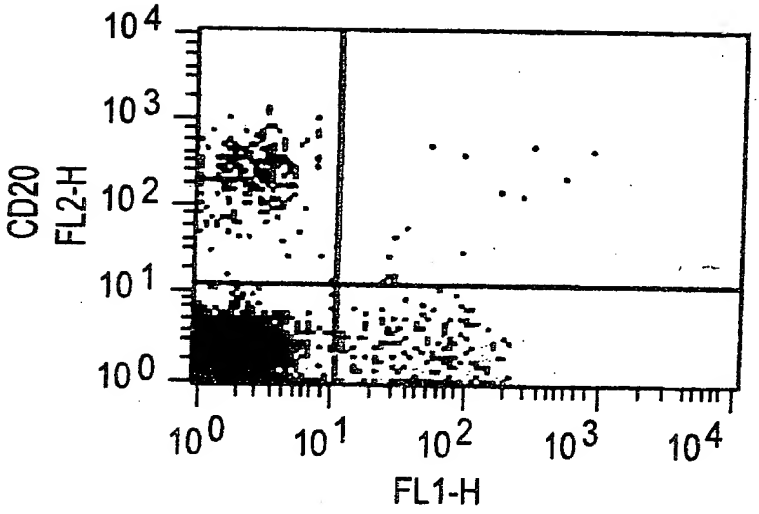


FIG. 11H

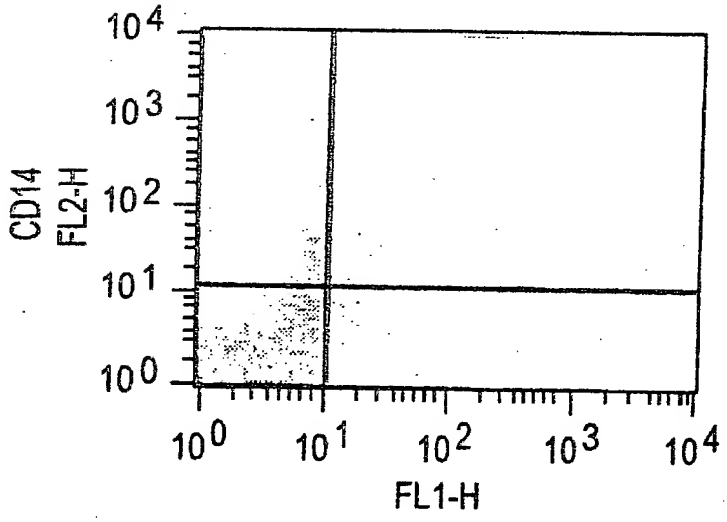


FIG. 12A

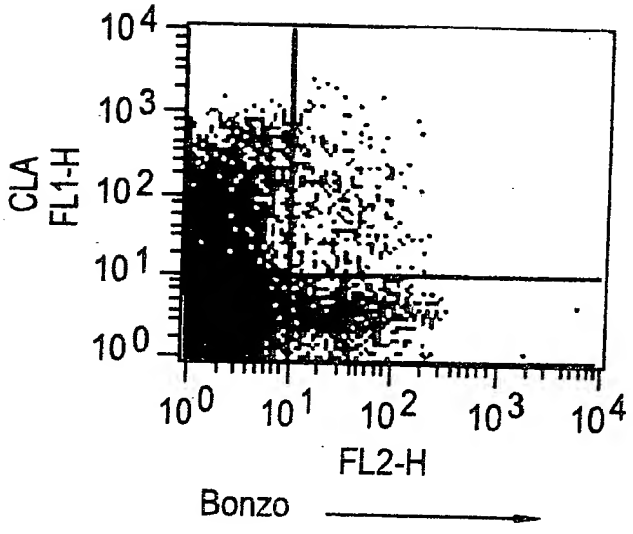


FIG. 12B

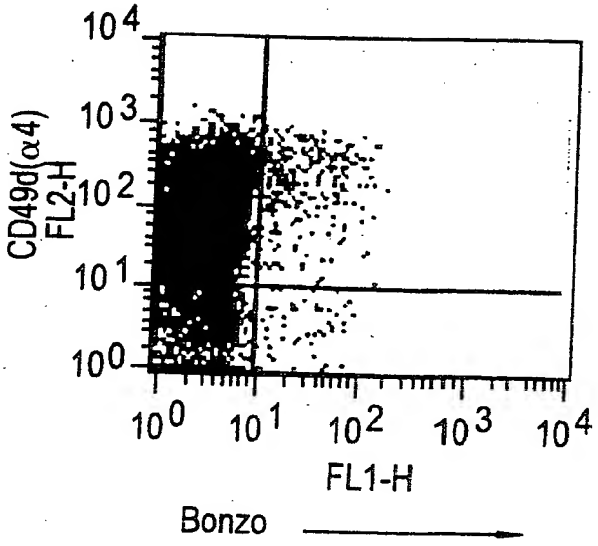


FIG. 12C

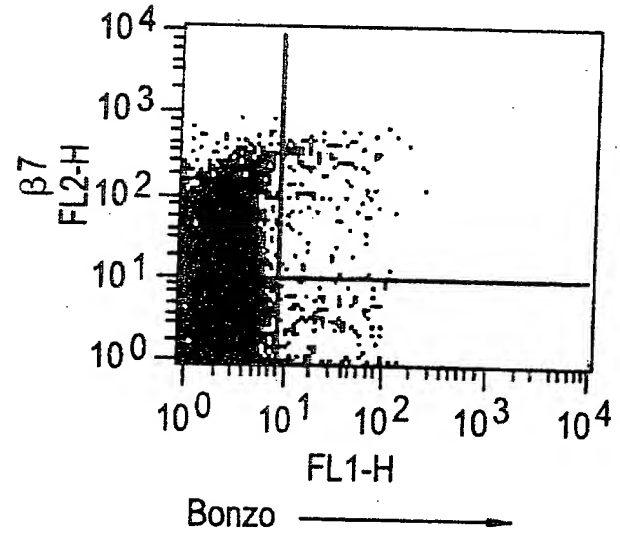


FIG. 12D

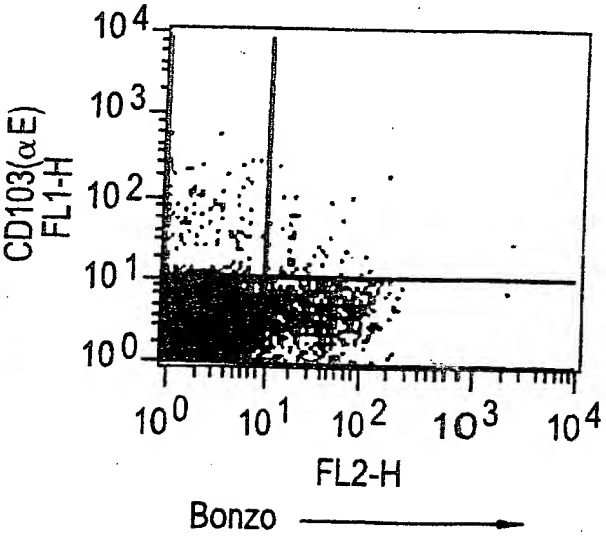


FIG. 13A

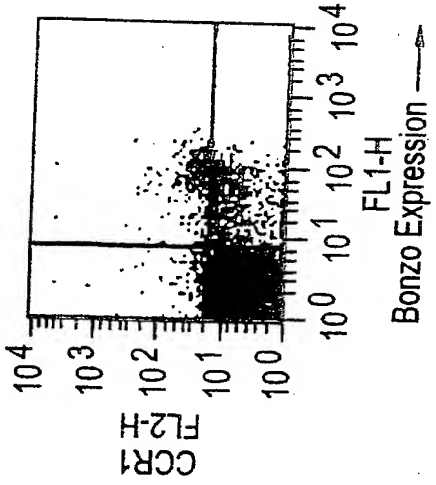


FIG. 13B

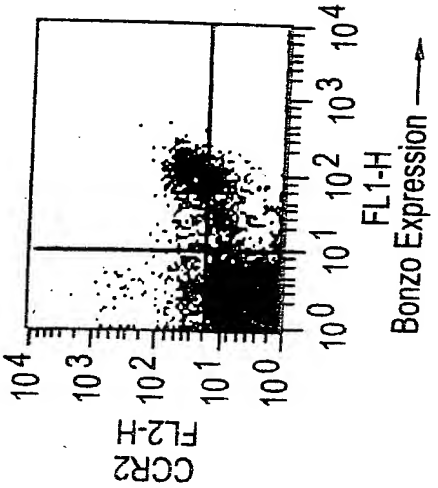


FIG. 13C

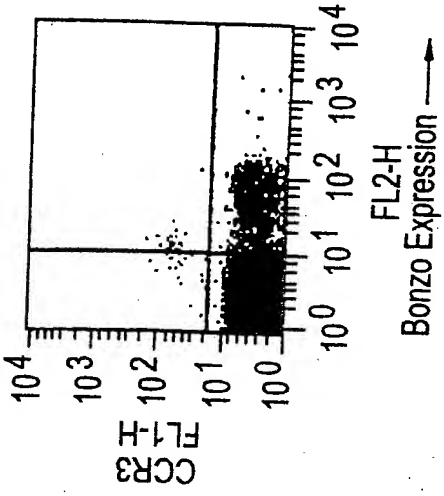


FIG. 13D

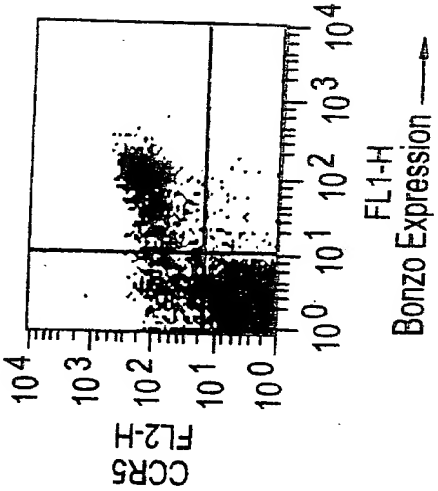


FIG. 13E

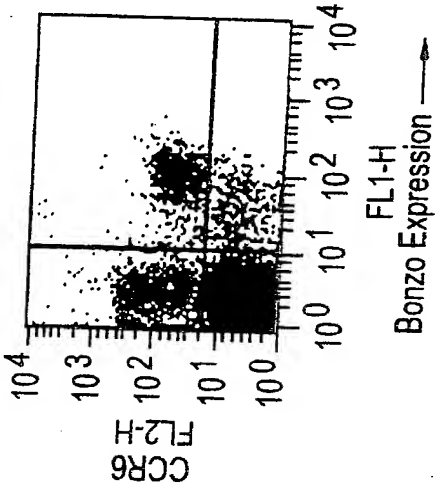


FIG. 13F

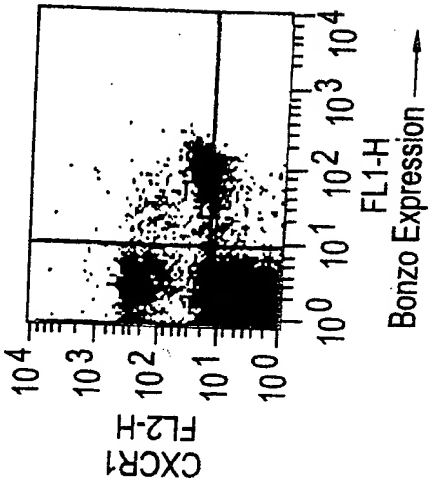


FIG. 13G

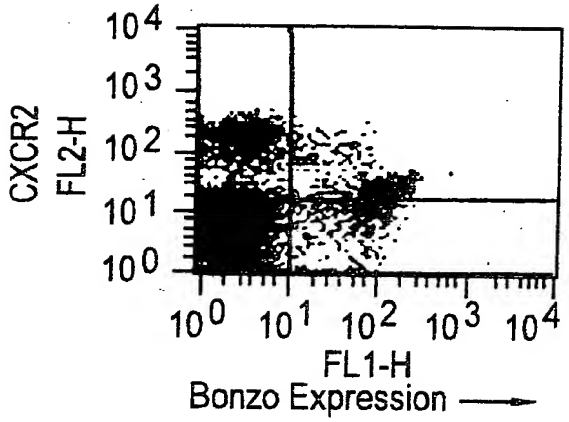


FIG. 13H

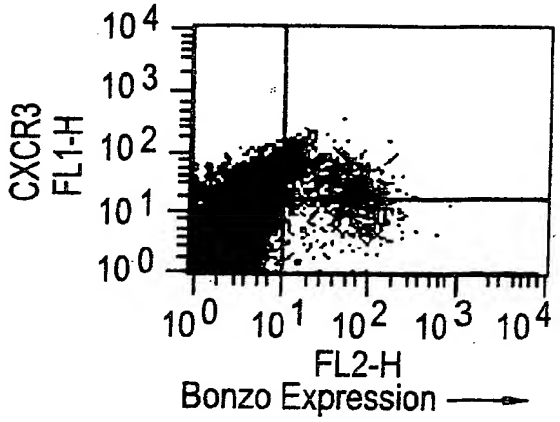


FIG. 13I

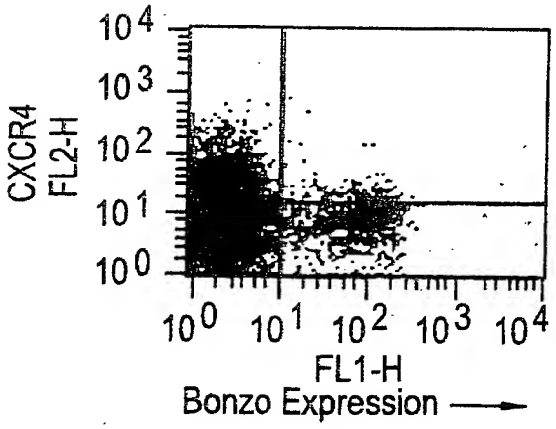
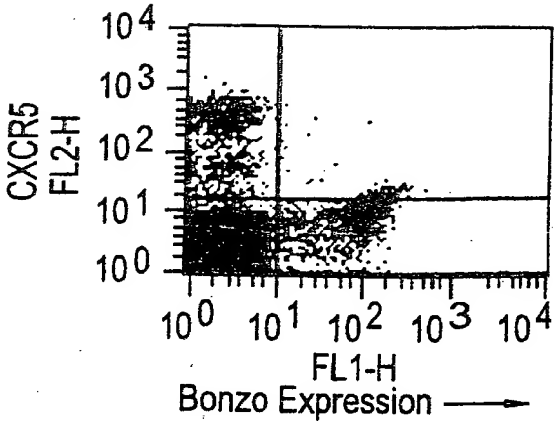


FIG. 13J



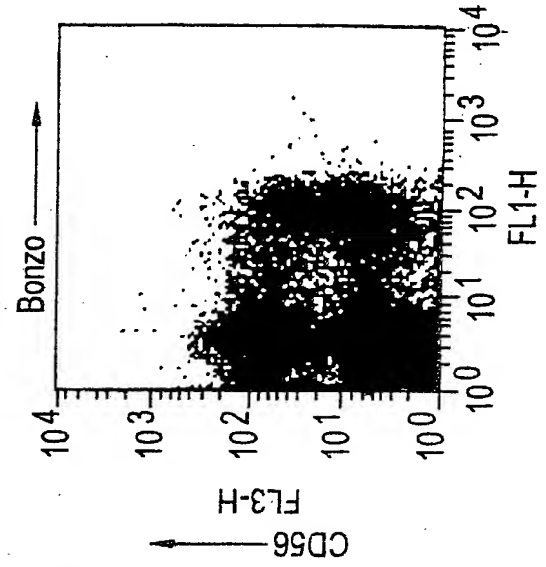


FIG. 14B

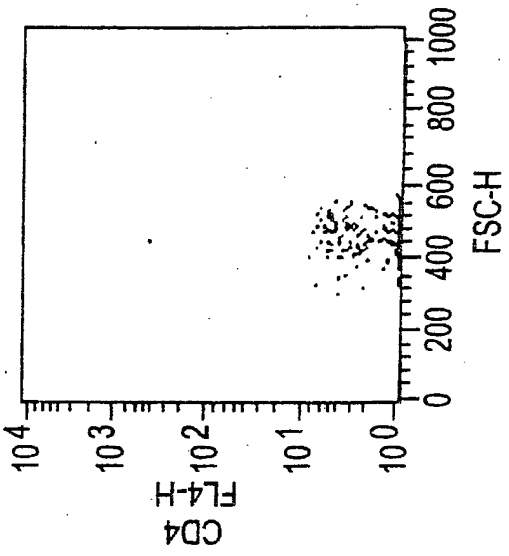


FIG. 14F

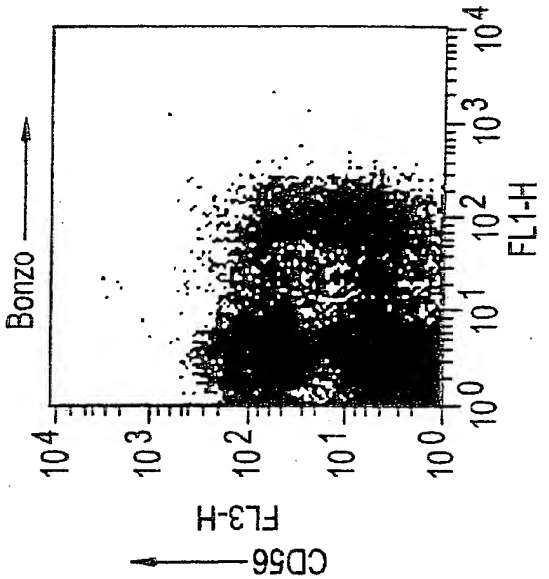


FIG. 14A

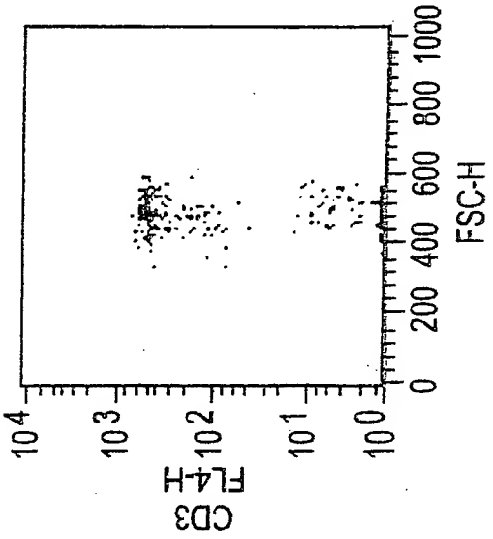


FIG. 14E

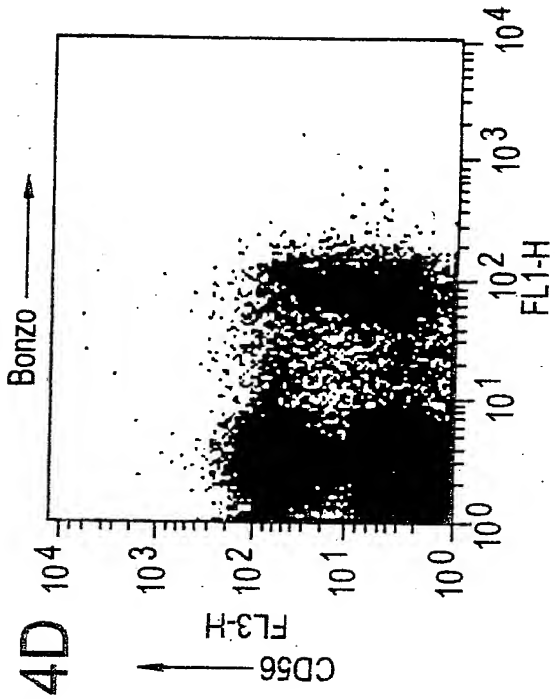


FIG. 14D

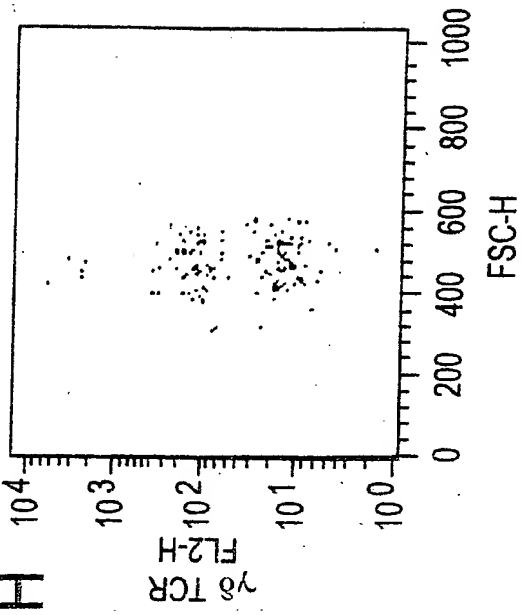


FIG. 14H

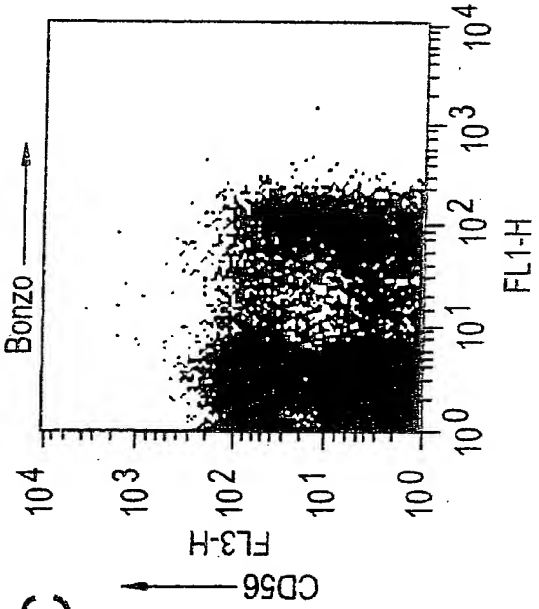


FIG. 14C

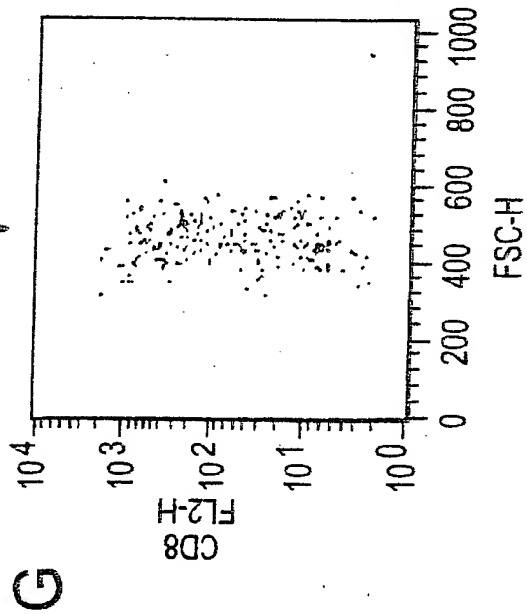


FIG. 14G

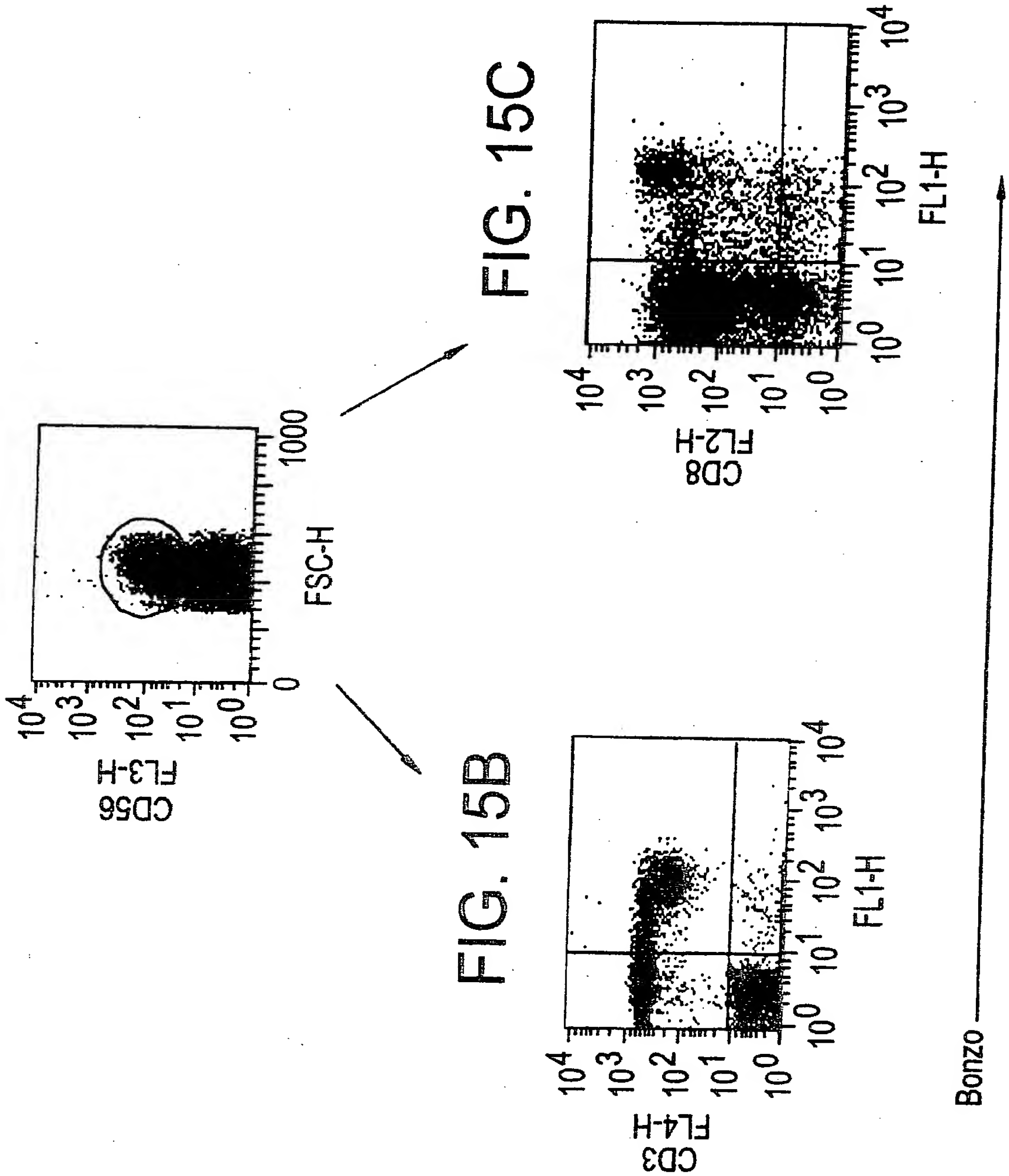


FIG. 15A

FIG. 15B

FIG. 15C

FIG. 16A

4A11-30-8
anti-Bonzo
(IgG2b)

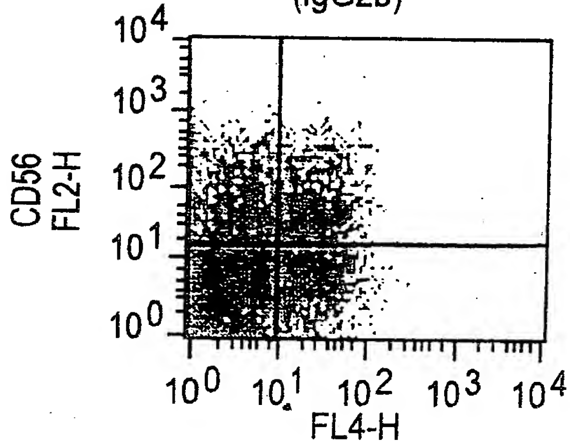


FIG. 16B

7F3-8-1
anti-Bonzo
(IgG2a)

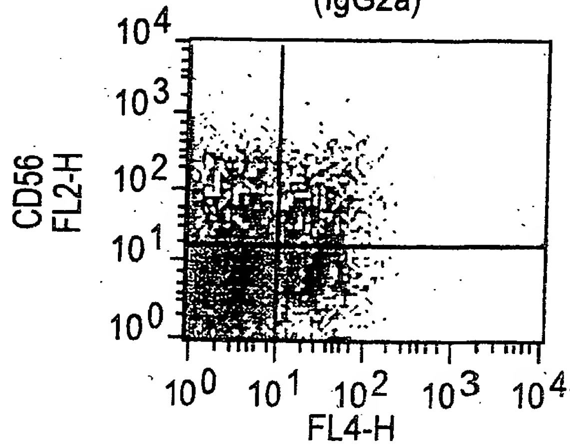


FIG. 16C

7A2-32-1
anti-Bonzo
(IgG2a)

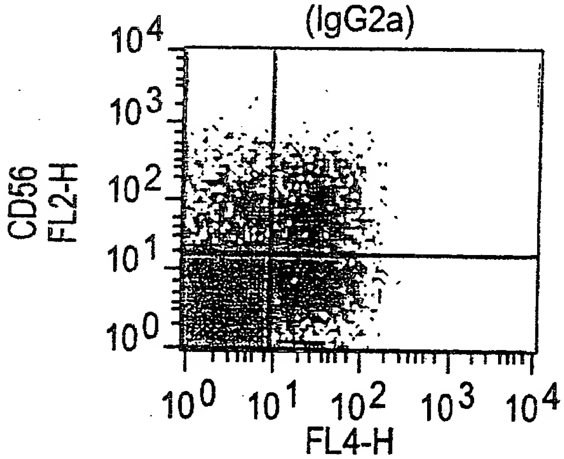


FIG. 16D

7H12-12-2
anti-CCR7
(IgG2b)

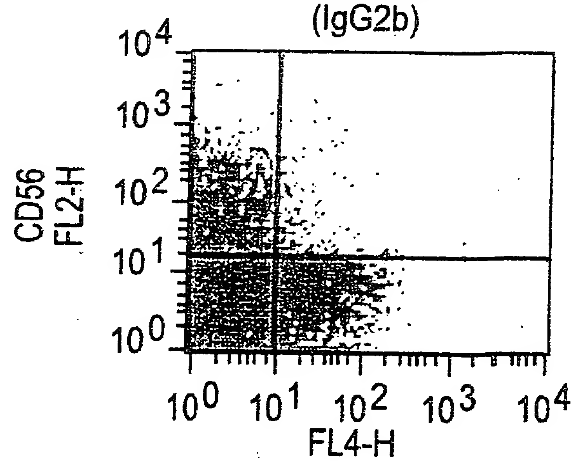


FIG. 17A

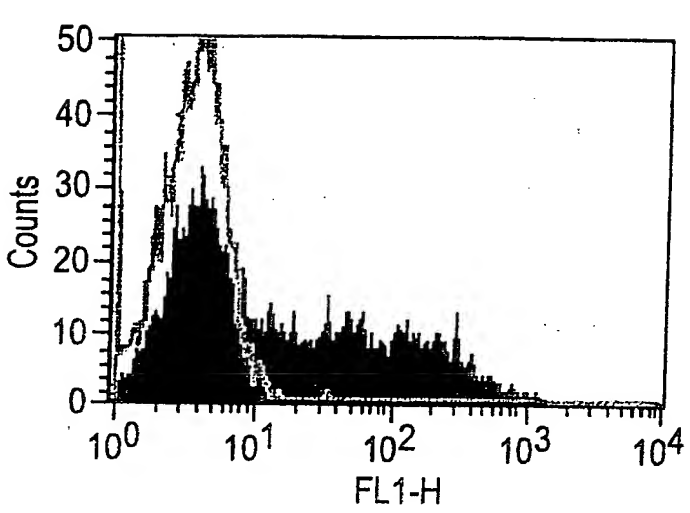


FIG. 17B

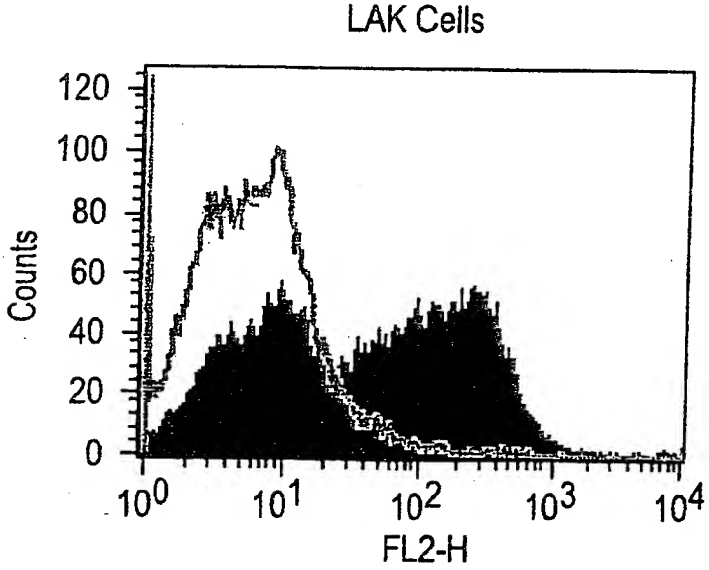
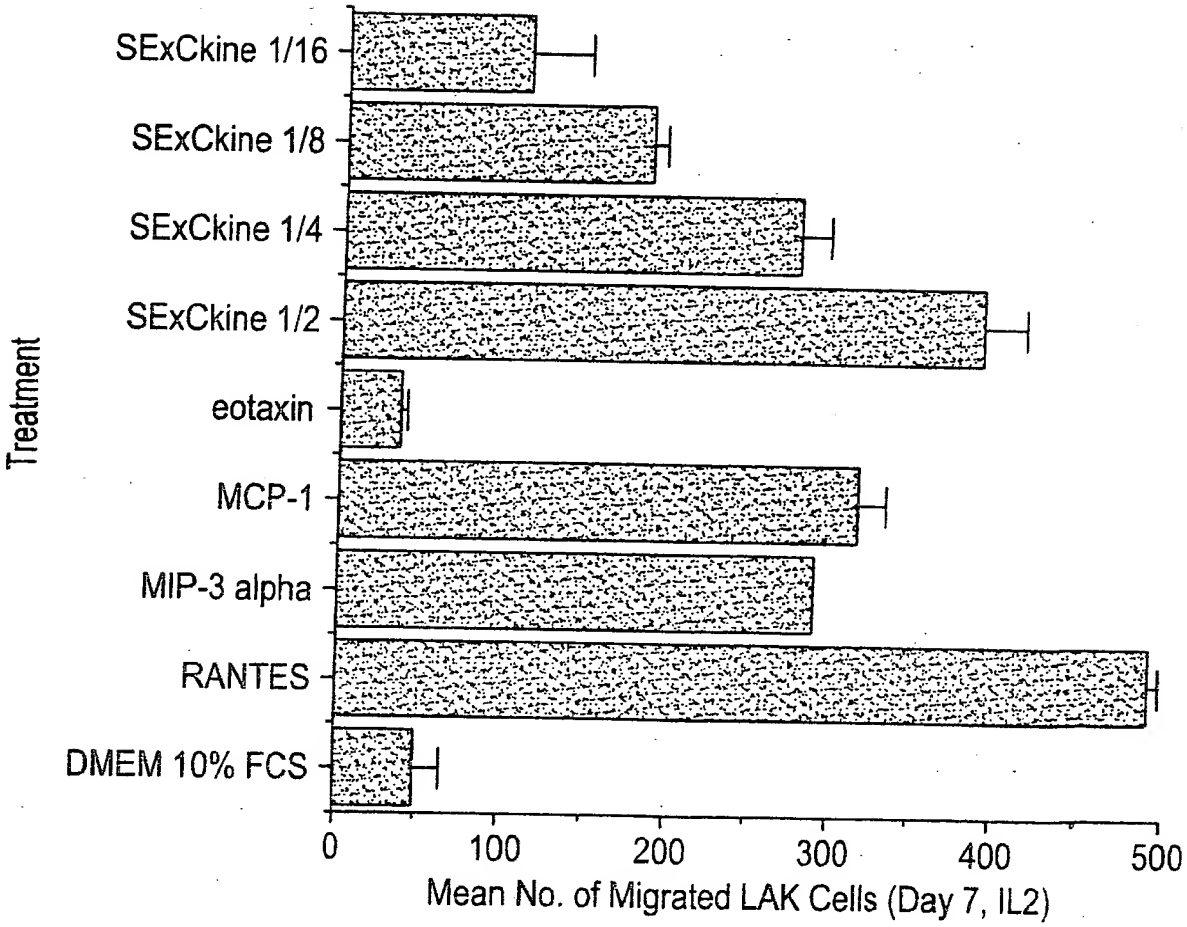


FIG. 18


SExCkine 1/16
SExCkine 1/8
SExCkine 1/4
SExCkine 1/2
eotaxin
MCP-1
MIP-3 alpha
RANTES
DMEM 10% FCS
Treatment
0
100
200
300
400
500
Mean No. of Migrated LAK Cells (Day 7, IL2)

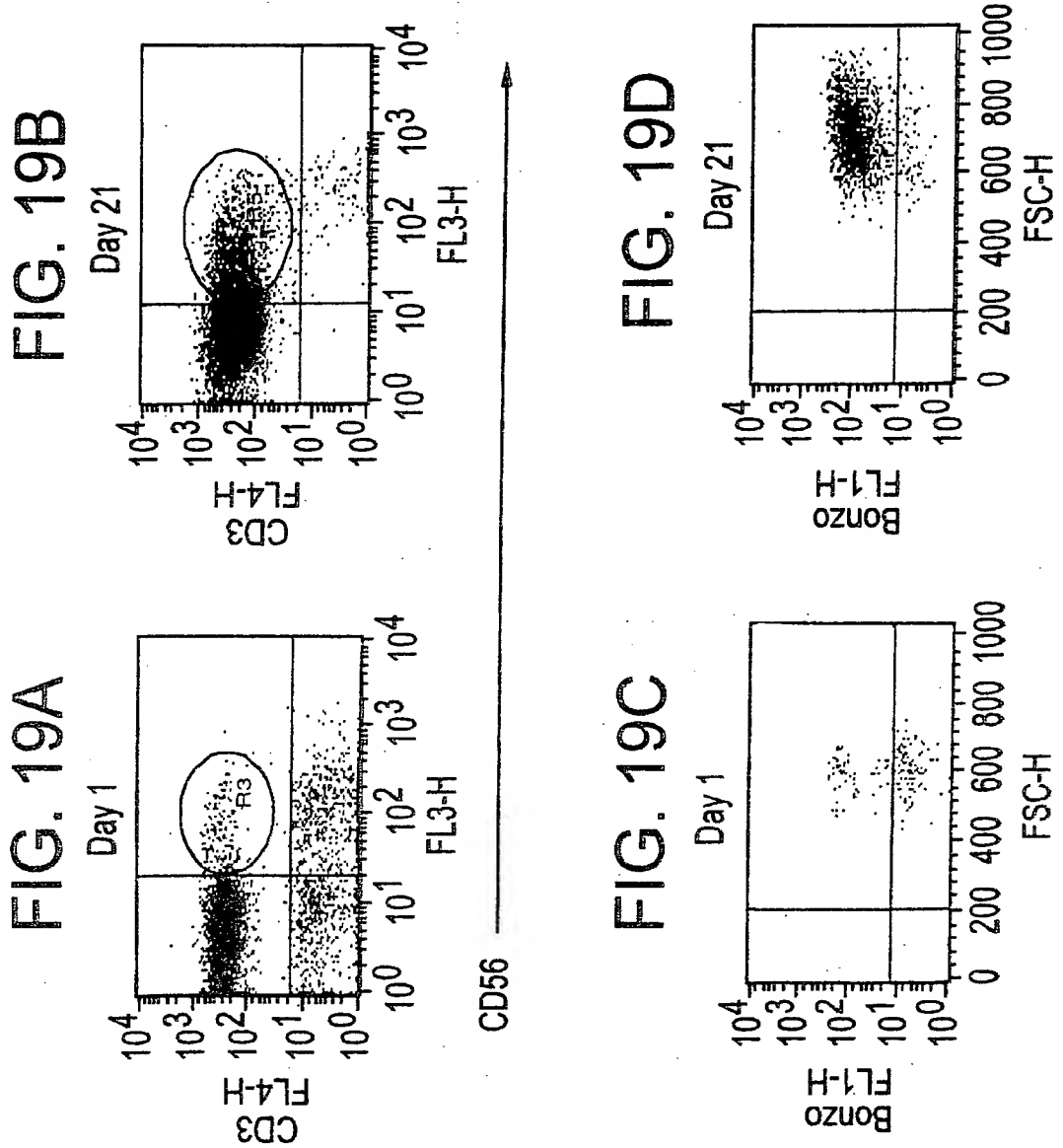


FIG. 19A
Day 1
R3
CD3
FL4-H
FL3-H
FIG. 19B
Day 21
CD56
FIG. 19C
Day 1
Bonzo
FL1-H
FSC-H
FIG. 19D
Day 21

FIG. 20

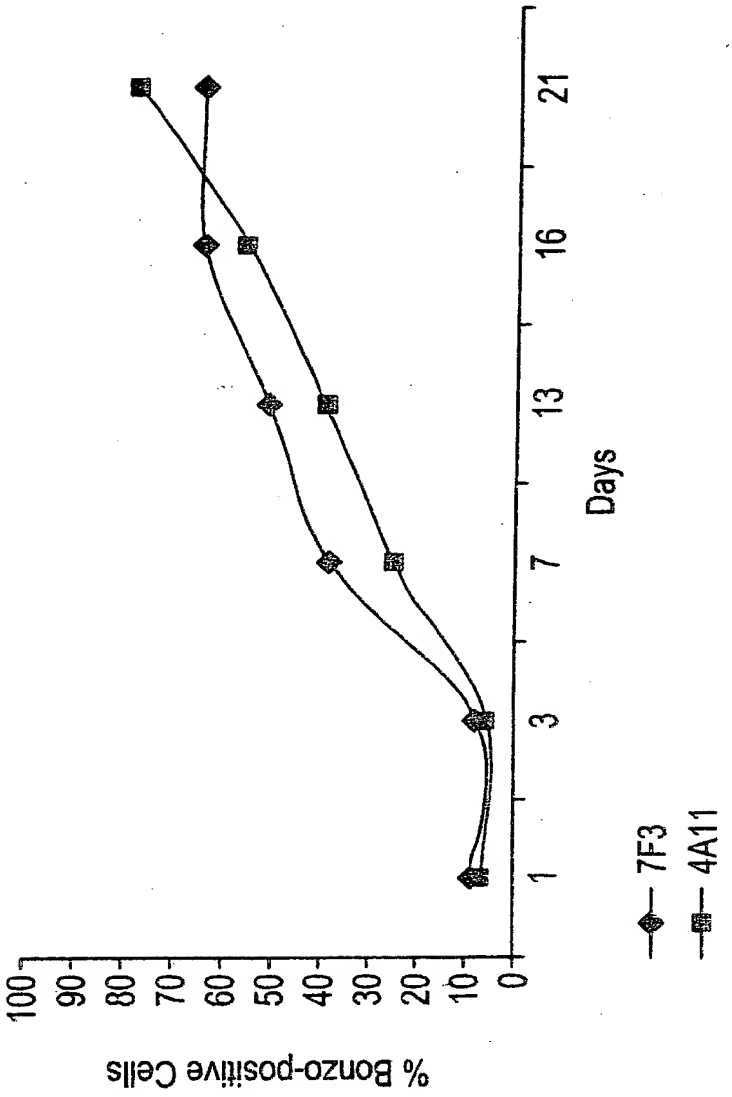


FIG. 21

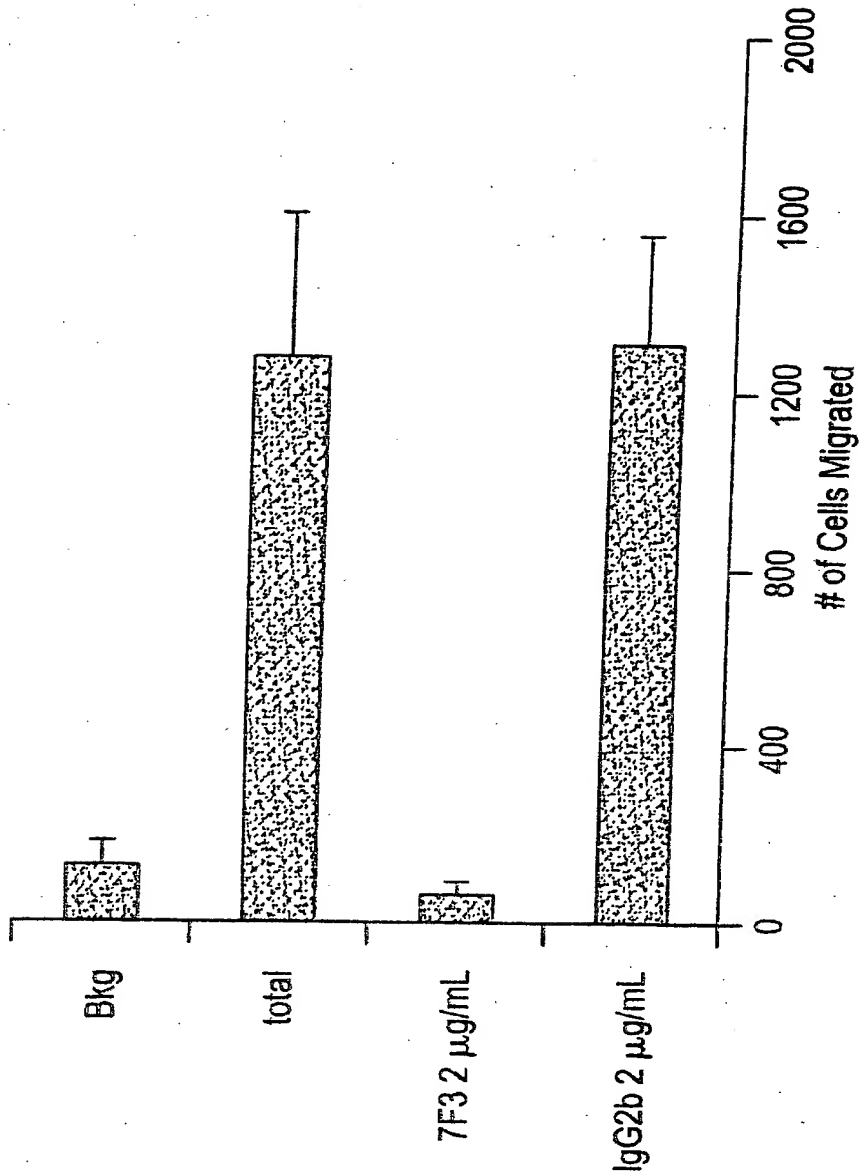


FIG. 22

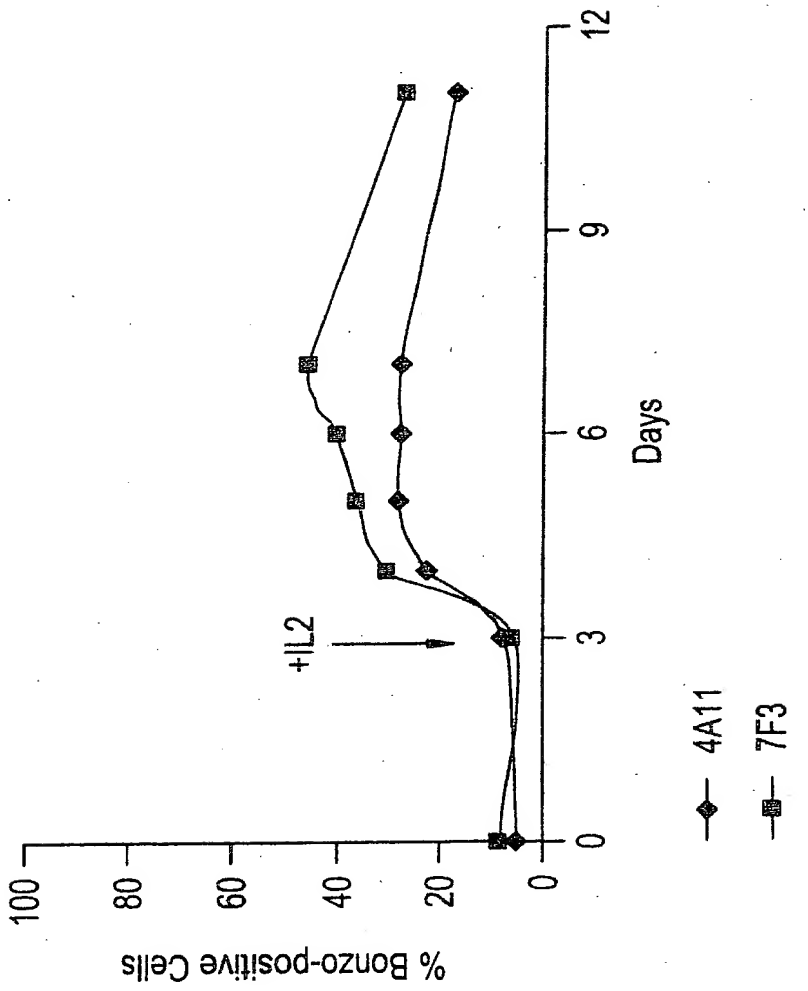
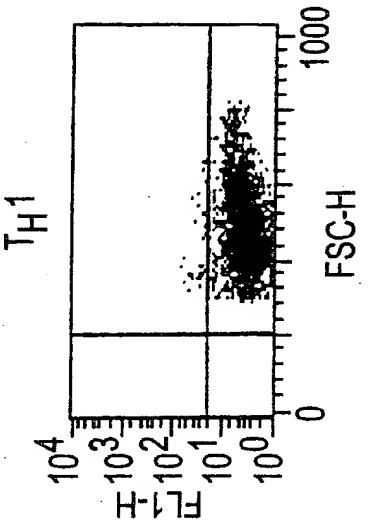

% Bonzo-positive Cells
100
80
60
40
20
0
0
3
6
9
12
Days
+IL2
4A11
7F3

FIG. 23A



MOPC

FIG. 23B

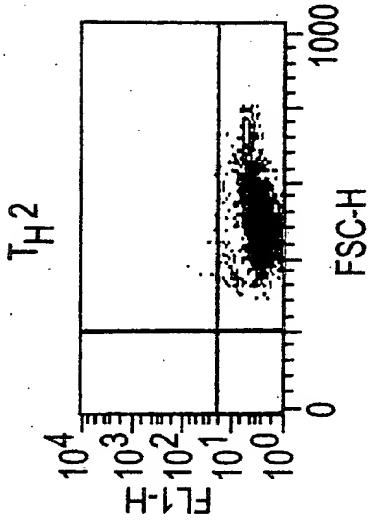
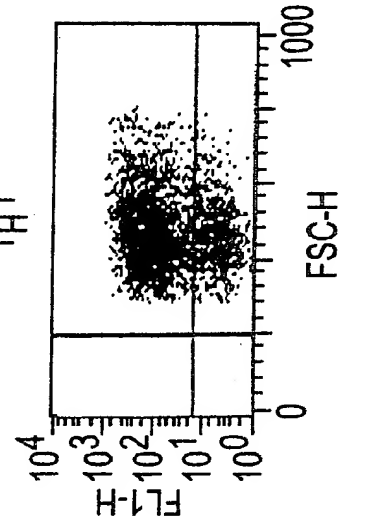
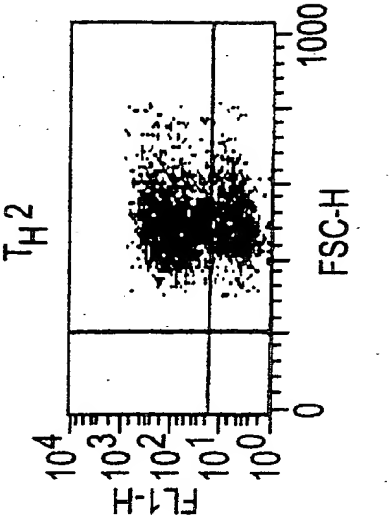


FIG. 23C



4A11
anti-Bonzo

FIG. 23D



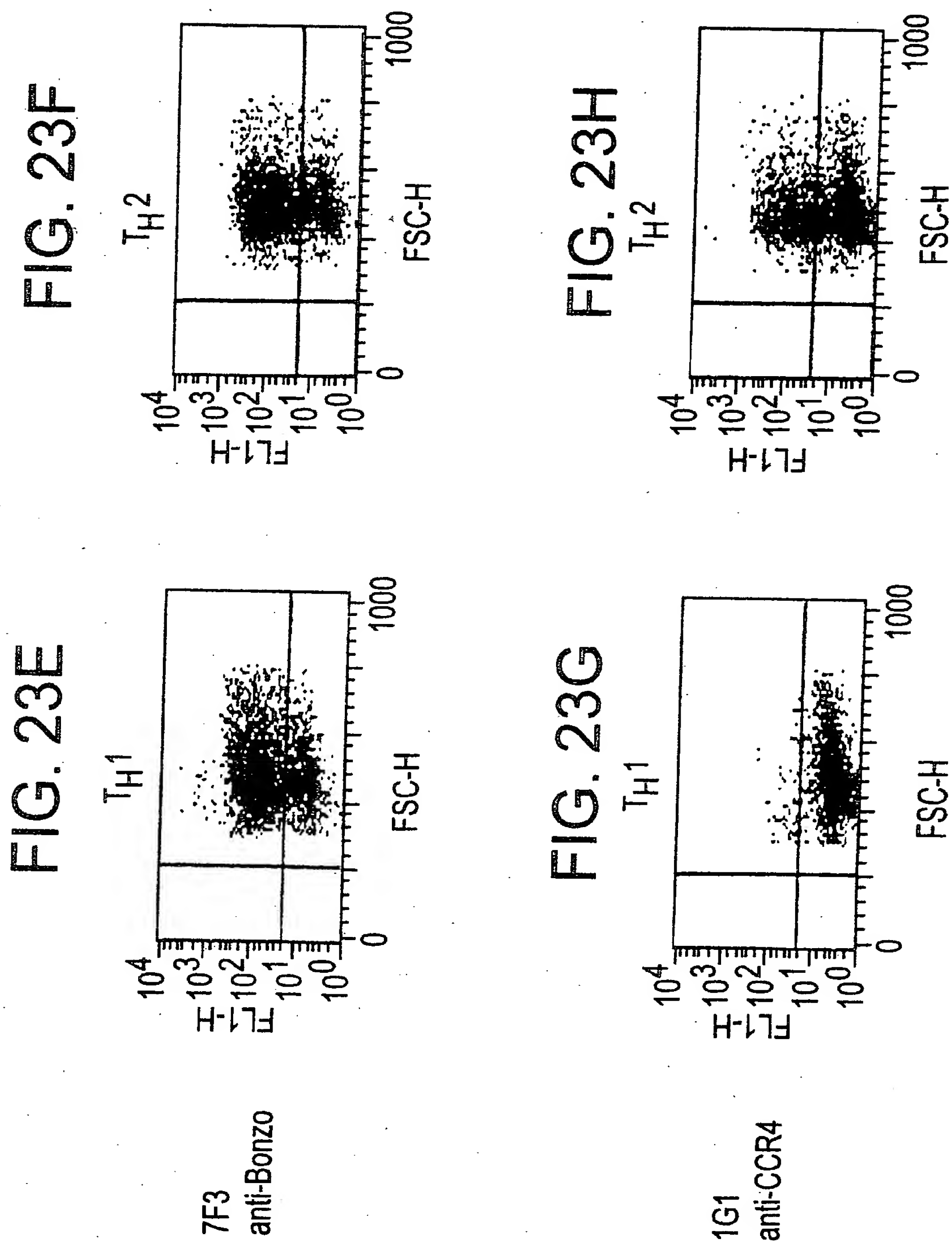


FIG. 24A

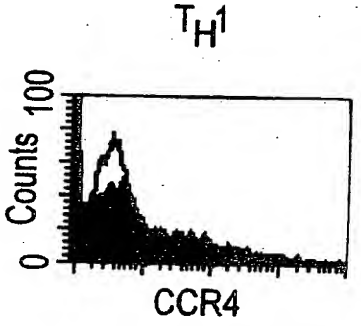


FIG. 24B

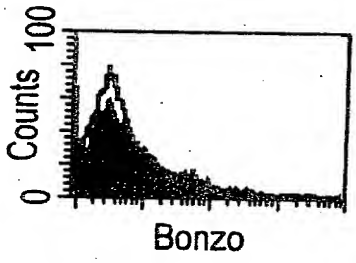


FIG. 24C

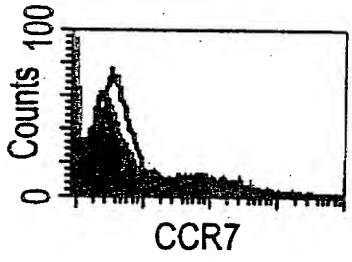


FIG. 24D

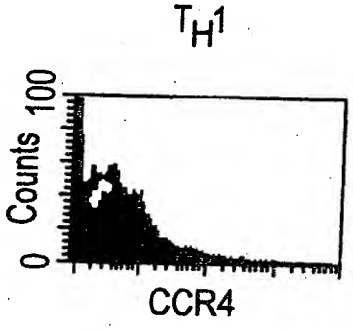


FIG. 24E

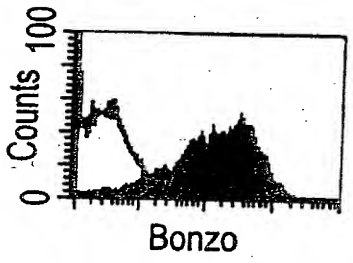


FIG. 24F

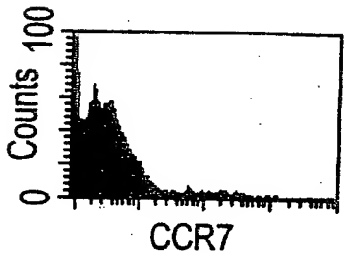


FIG. 25A

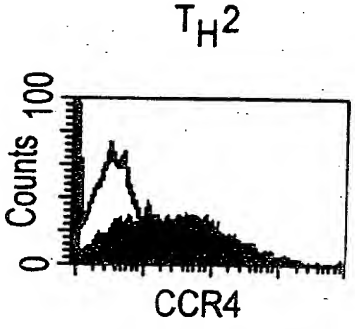


FIG. 25B

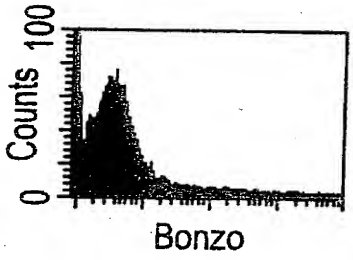


FIG. 25C

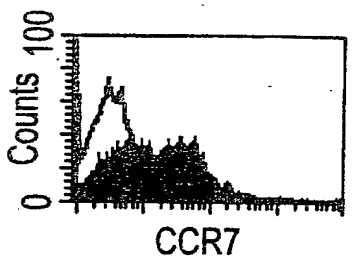


FIG. 25D

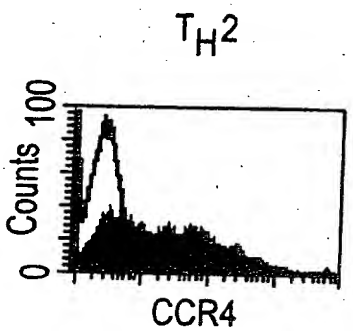


FIG. 25E

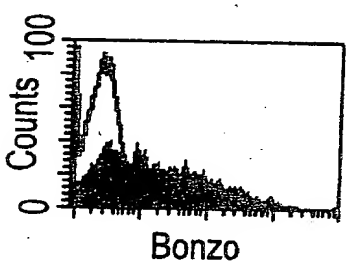


FIG. 25F

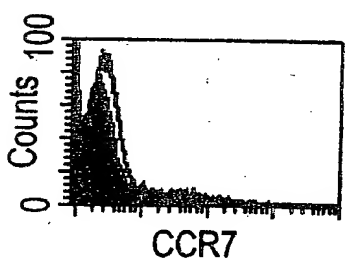


FIG. 26A

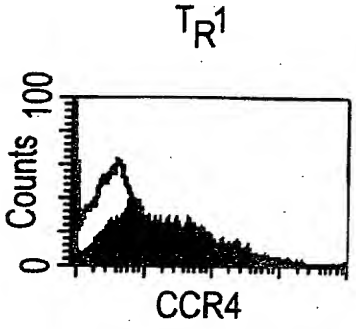


FIG. 26B

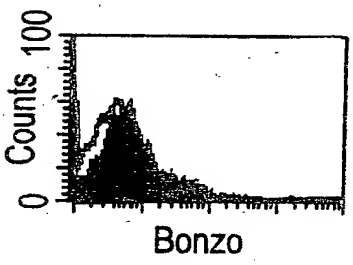


FIG. 26C

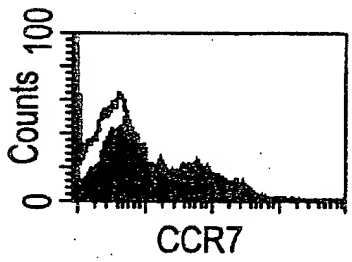


FIG. 26D

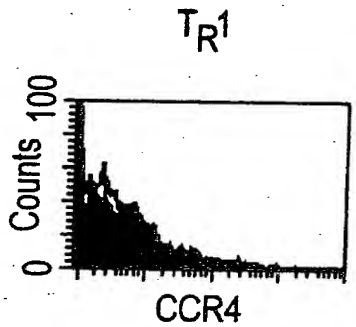


FIG. 26E

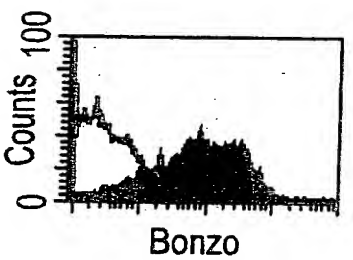


FIG. 26F

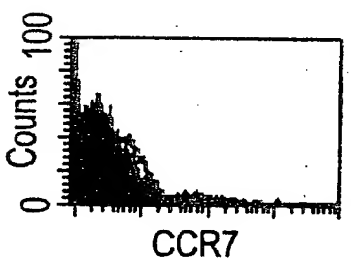


FIG. 27

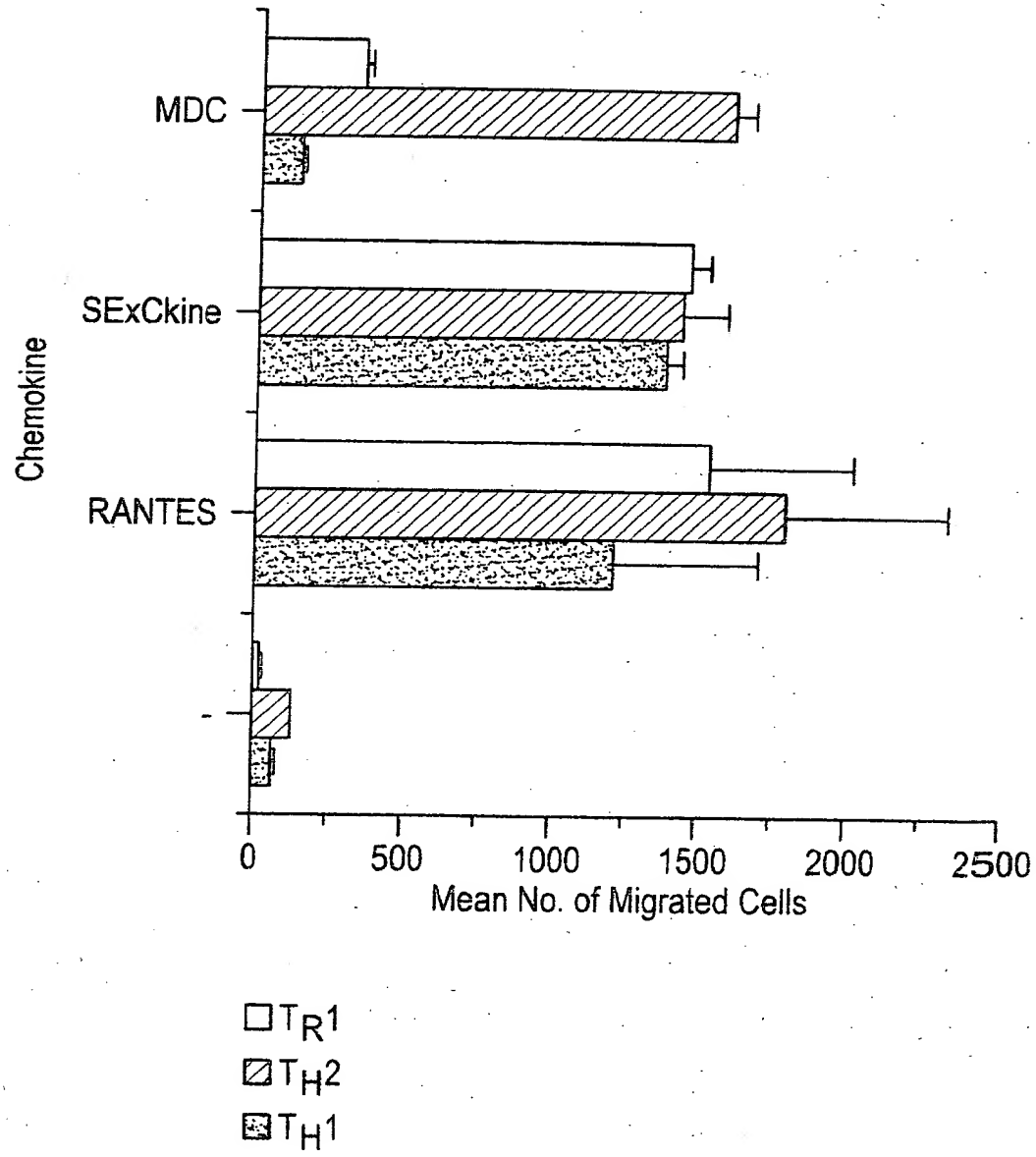

MDC
SExCkine
RANTES
Chemokine
0
500
1000
1500
2000
2500
Mean No. of Migrated Cells
T_R1
T_H2
T_H1

FIG. 28

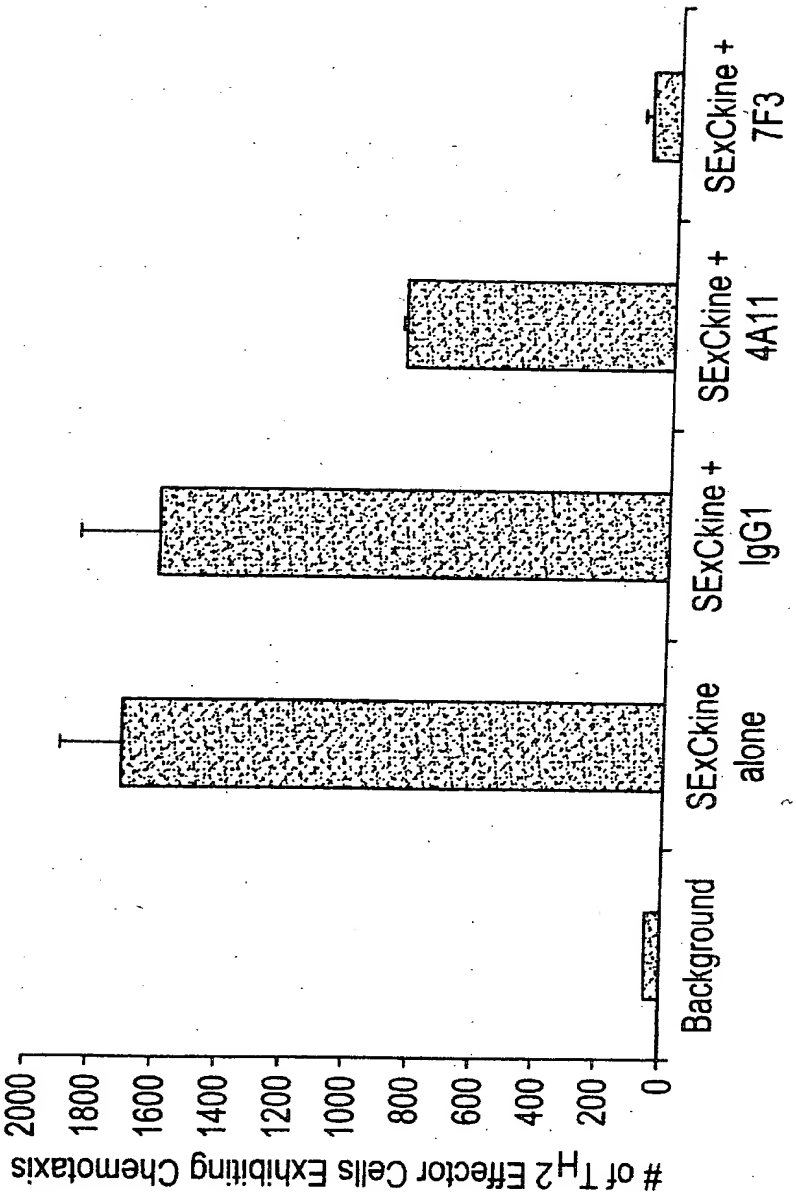


FIG. 29

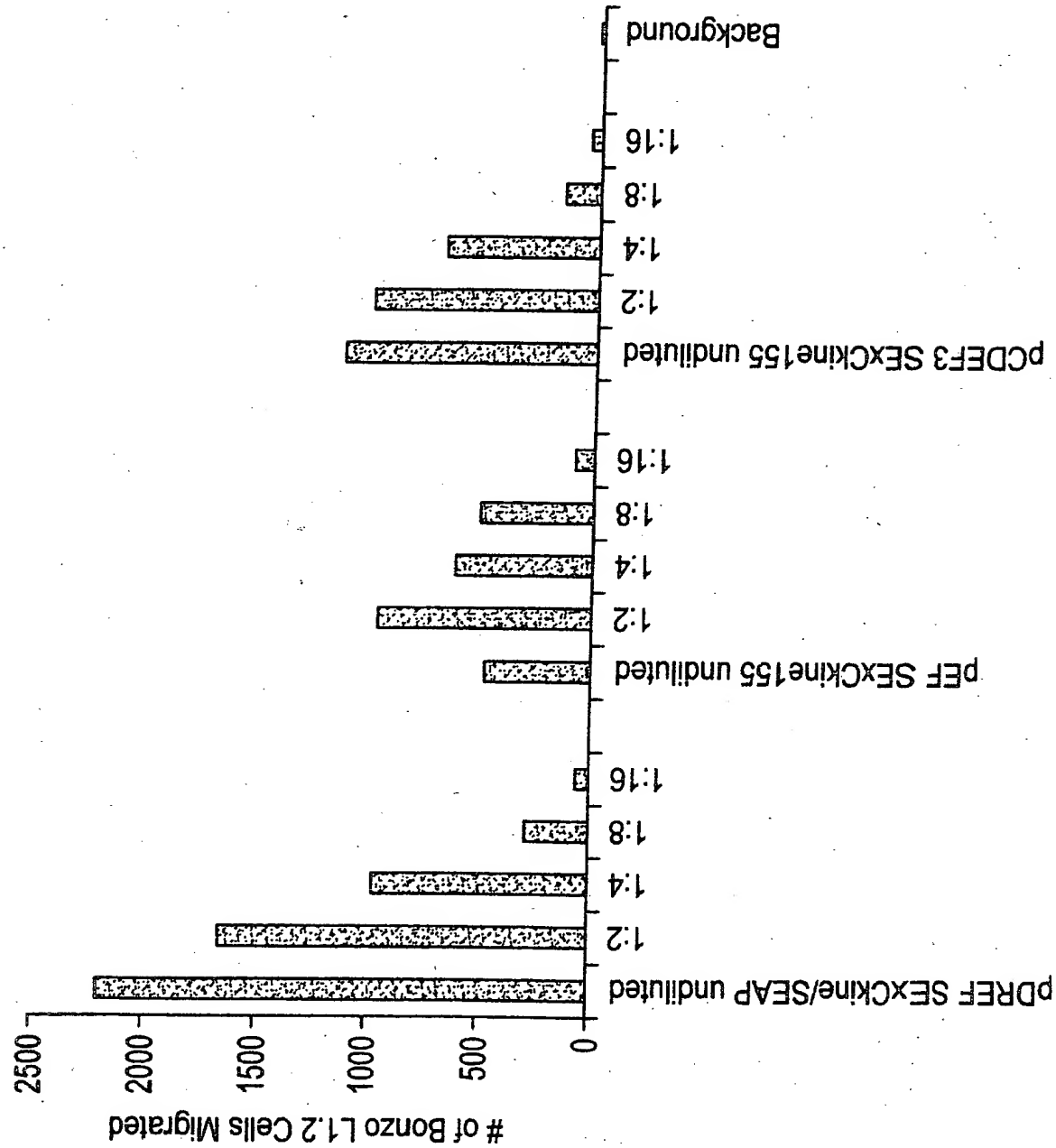
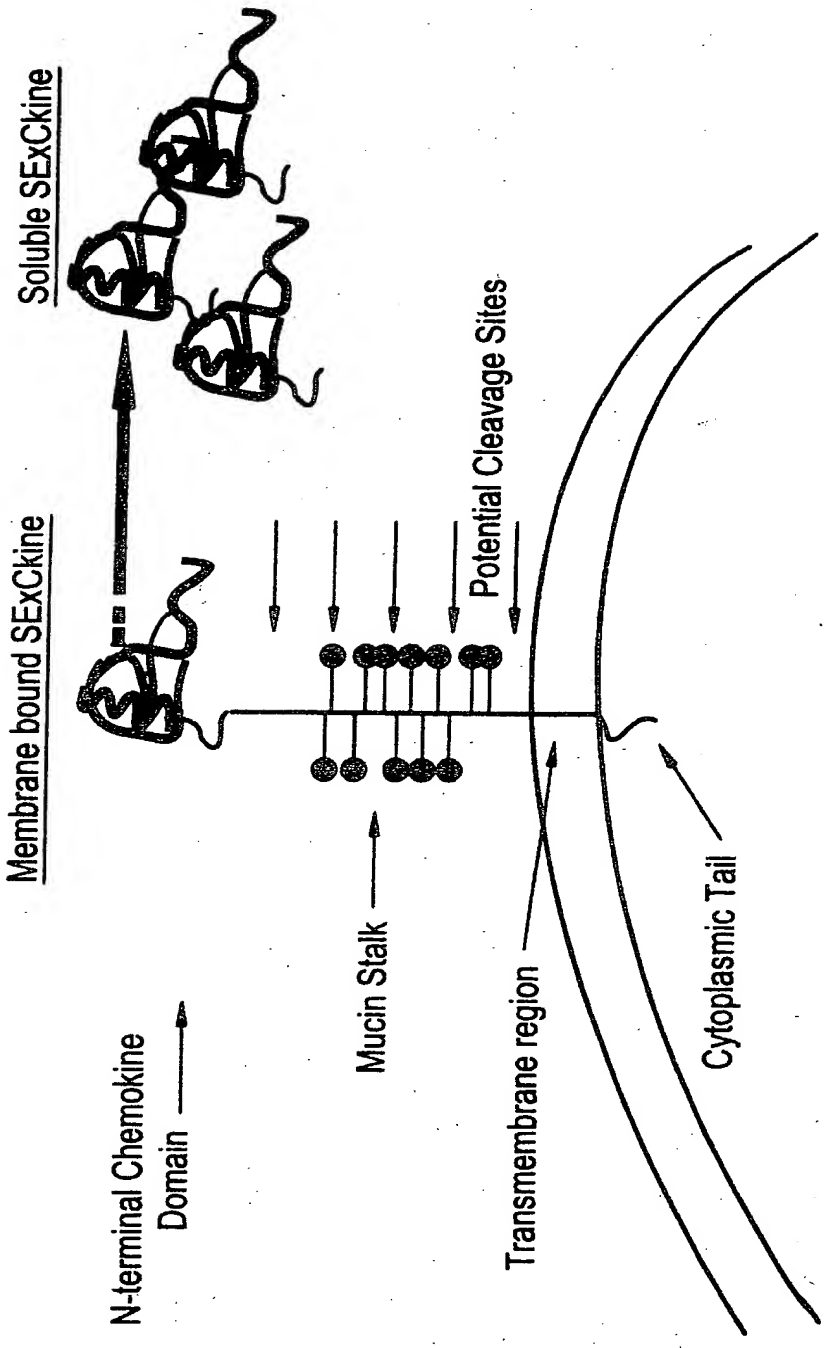

# of Bonzo L1.2 Cells Migrated
2500
2000
1500
1000
500
0
pDREF SExCkine/SEAP undiluted
1:2
1:4
1:8
1:16
pEF SExCkine155 undiluted
1:2
1:4
1:8
1:16
pCDEF3 SExCkine155 undiluted
1:2
1:4
1:8
1:16
Background

FIG. 30



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Novel Antibodies and Ligands...
Inventors: Michael J. Briskin *et al.*

FIG. 31

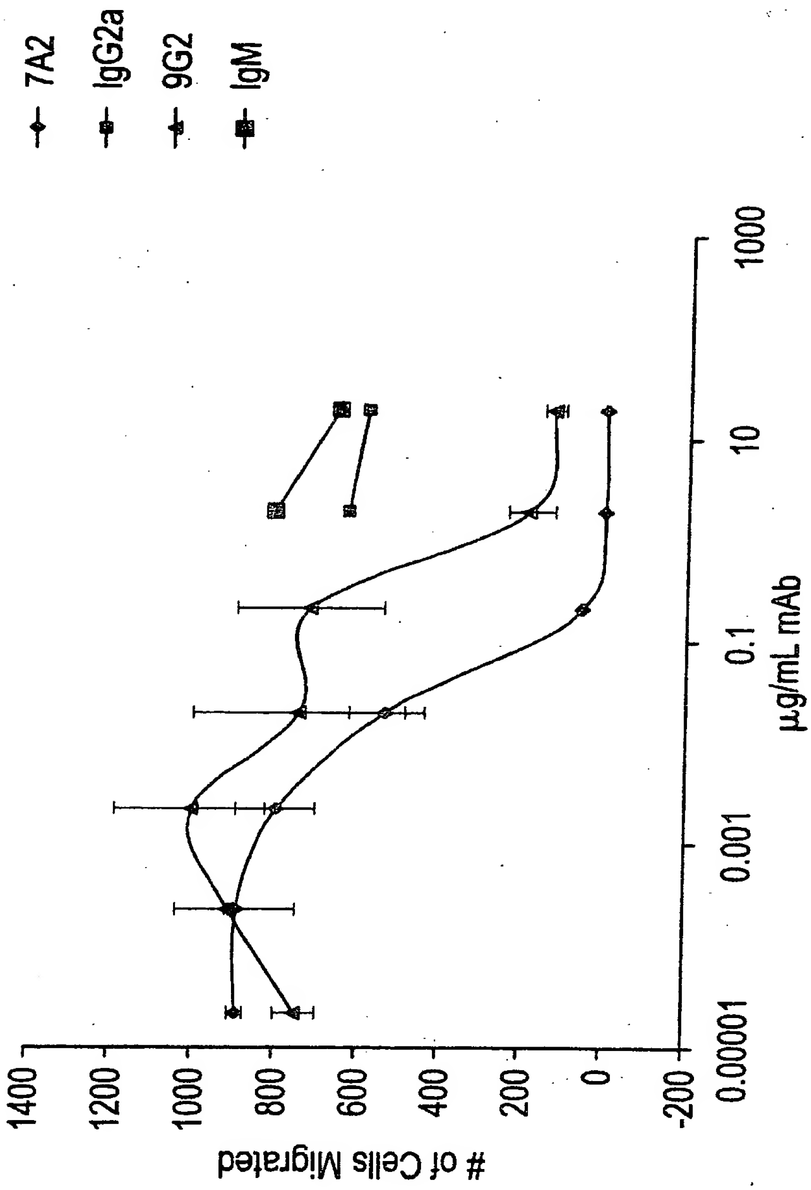

FIG. 32